

6301/6881
FIGURE 5821

TTTAAAGCTGGGAGGTTCTGCCACCAAGCACGGCCTTCCCCTGCGGAACACAACTTGCTGGCGGGAAGAGCCCG
GAAAGAAACCTGTGGATCTCCCTTCGAGATCATCCAAAGAGAAGAAAGGTGACCTCACATTTCGTGCCCCTTAGCA
GCACTCTGCAGAAATGCCTCCTCAGCTGCAAAACGGCCTGAACCTCTCGGCCAAAGTTGTCCAGGGAAGCCTGGA
CAGCCTACCCCAGGCAGTGAGGGAGTTTCTCGAGAATAACGCTGAGCTGTGTCAGCCTGATCACATCCACATCTG
TGACGGCTCTGAGGAGGAGAATGGGCGGCTTCTGGGCCAGATGGAGGAAGAGGGCATCCTCAGGCGGCTGAAGAA
GTATGACAACTGCTGGTTGGCTCTCACTGACCCAGGGATGTGGCCAGGATCGAAAGCAAGACGGTTATCGTCAC
CCAAGAGCAAAGAGACACAGTGCCCATCCCCAAAACAGGCCTCAGCCAGCTCGGTTCGCTGGATGTGAGAGGAGGA
TTTTGAGAAAGCGTTCAATGCCAGGTTCCAGGGTGCATGAAAGGTCGCACCATGTACGTCATCCCATTCAGCAT
GGGGCCGCTGGGCTCGCCTCTGTCAAAGATCGGCATCGAGCTGACGGATTACCCCTACGTGGTGGCCAGCATGCG
GATCATGACGCGGATGGGCACGCCGCTCCTGGAAGCAGTGGGCGATGGGGAGTTTGTCAAATGCCTCCATTCTGT
GGGGTGCCCTCTGCCTTTACAAAAGCCTTTGGTCAACAACCTGGCCCTGCAACCCGGAGCTGACGCTCATCGCCCA
CCTGCTGACCCGAGAGAGATCATCTCCTTTGGCAGTGGGTACGGCGGGAACCTCGCTGCTCGGGAAGAAGTGCTT
TGCTCTCAGGATGGCCAGCCGGCTGGCCAAGGAGGAAGGGTGGCTGGCAGAGCACATGCTGATTCTGGGTATAAC
CAACCCCTGAGGGTGAGAAGAAGTACCTGGCGGCCGATTTCCAGCGCCTGCGGGAAGACCAACCTGGCCATGAT
GAACCCAGCCTCCCCGGGTGGAAGGTTGAGTGCCTCGGGGATGACATTGCCTGGATGAAGTTTGACGCACAAGG
TCATTTAAGGGCCATCAACCCAGAAAATGGCTTTTTTCGGTGTGCTCCTGGGACTTCAGTGAAGACCAACCCCAA
TGCCATCAAGACCATCCAGAAGAACAATCTTTACCAATGTGGCCGAGACCAGCGACGGGGGCGTTTACTGGGA
AGGCATTGATGAGCCGCTAGCTTCAGGTGTCACCATCACGTCTGGAAGAATAAGGAGTGGAGCTCAGAGGATGG
GGAACCTTGTGCCCACCCCAACTCGAGGTTCTGCACCCCTGCCAGCCAGTGGCCCATCATTGATGCTGCCTGGGA
GTCTCCGGAAGGTGTTCCCATGAAGGCATTATCTTTGGAGGCCGTAGACCTGCTGGTGTCCCTCTAGTCTATGA
AGCTCTCAGCTGGCAACATGGAGTCTTTGTGGGGGCGGCCATGAGATCAGAGGCCACAGCGGCTGCAGAACATAA
AGGCAAAATCATCATGATGACCCCTTTGCCATGCGGCCCTTCTTTGGCTACAACCTCGGCAAAATACCTGGCCCA
CTGGCTTAGCATGGCCAGCACCCAGCAGCCAAACTGCCCAAGATCTTCCATGTCAACTGGTTCCGGAAGGACAA
GGAAGGCAAATTCCTCTGGCCAGGCTTTGGAGAGAACTCCAGGGTGTGGAGTGGATGTTCAACCGGATCGATGG
AAAAGCCAGCACCAAGCTCACGCCCATAGGCTACATCCCCAAGGAGGATGCCCTGAACCTGAAAGGCCTGGGGCA
CATCAACATGATGGAGCTTTTCAGCATCTCCAAGGAATTCTGGGAGAAGGAGGTGGAAGACATCGAGAAGTATCT
GGAGGATCAAGTCAATGCCGACCTCCCCTGTGAAATCGAGAGAGAGATCCTTGCCTTGAAGCAAAGAATAAGCCA
GATGTAATCAGGGCCTGAGTGCTTTACCTTTAAATCATTCCCTTTCCCATCCATAAGGTGCAGTAGGAGCAAGA
GAGGGCAAGTGTTCCCAAATTGACGCCACCATAATAATCATCACACACCGTGAGCAGATCTGAAAGGCACACTT
TGATTTTTTTAAGGATAAGAACCACAGAACTGGGTAGTAGCTAATGAAATTGAGAAGGGAAATCTTAGCATGC
CTCCAAAAATTCACATCCAATGCATAGTTTGTTCAAATTTAAGGTTACTCAGGCATTGATCTTTTCAGTGTTTTT
TCACTTTAGCTATGTGGATTAGCTAGAATGCACACCAAAAAATACTTGAGCTGTATATATATATGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGCATGTATGTGCACATGTGTCTGTGTGGTATATTTGTGTATGTGTATTTGT
ATGTACTGTTATTGAAAATATATTTAATACCTTTGGAAAAATCTTGGGCAAGATGACCTACTAGTTTTTCCTTGAA
AAAAAGTTGCTTTGTTATTAATATTGTGCTTAAATTATTTTATACACCATTTTCCTTACCTTTACATAATTGC
AATATTTCCCCCTTACTACTTCTTGGAATAAATTACAAAATGAAGTTTTATAGAAAAG

6302/6881
FIGURE 5822

MPPQLQNGLNLSAKVVQGSLSLPQAVREFLENNAEICQPDHIHICDGSEEENGRLLGQMEEEGILRRLKKYDNC
WLALTDPRDVARIESKTVIVTQEQRDTPVIPKTGLSQLGRWMSEEDFEKAFNARFPGCMKGRTMYVIPFSMGPLG
SPLSKIGIELTDSPLYVVASMRIMTRMGTPVLEAVGDGEFVKCLHSVGCPLPLQKPLVNNWPCNPELTTLIAHLPDR
REIISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHMLILGITNPEGEKKYLAAAFPSACGKTNLAMMNPSL
PGWKVECVGDDIAWMKFDAQGHLRAINPENGFFGVAPGTSVKTNPNAIKTIQKNTIFTNVAETSDGGVYWEGIDE
PLASGVTTITSWKNKEWSSEDGEPCAHPNSRFCTPASQCPIDAAWESPEGVPIEGIIFGGRRPAGVPLVYEALSW
QHGVFVGAAMRSEATAAAEHKGKIIMHDPFAMRPFPGYNFGKYLAHWLSMAQHPAAKLPKIFHVNWFRKDKEGKF
LWPGFGENSRVLEWMFNRIDGKASTKLTPIGYIPKEDALNLKGLGHINMMELFSISKEFWEKEVEDIEKYLEQV
NADLPCEIEREILALKQRISQM

6303/6881

FIGURE 5823A

[illegible]

6304/6881
FIGURE 5823B

ACTCCTGCTCCTCCAACCTTTTTTTTGCCAAGGTTTGTACACGACTCCCATCTAGGCTGAAAACCTAGAAGTGGAC
CTTGTGTGTGTGCATGGTGTGAGCCCAAAGCCAGGCTGAGACAGTCCTCATATCCTCCTTGAGCCAAACTGTTTGG
GTCTCGTTGCTTCATGGTATGGTCTGGATTTGTGGGAATGGCTTTGCGTGAGAAAGGGGAGGAGAGTGGTTGCTG
CCCTCAGCCGGCTTGAGGACAGAGCCTGTCCCTCTCATGACAACTCAGTGTTGAAGCCCAGTGTCCTCAGCTTCA
TGTCCAGTGGATGGCAGAAGTTTCATGGGGTAGTGGCCTCTCAAAGGCTGGGCGCATCCCAAGACAGCCAGCAGGT
TGTCTCTGGAACGACCAGAGTTAAGCTCTCGGCTTCTCTGCTGAGGGTGACCCCTTTCCTCTAGATGGTAGTTG
TCACGTTATCTTTGAAAACCTTTGGACTGCTCCTGAGGAGGCCCTCTTTTCCAGTAGGAAGTTAGATGGGGGTTTC
TCAGAAGTGGCTGATTGGAAGGGGACAAGCTTCGTTTCAGGGGTCTGCCGTTCCATCCTGGTTTCAGAGAAGGCCG
AGCGTGGCTTTTCTCTAGCCTTGTCACTGTCTCCCTGCCGTGTCATCACCACCTTTCCTCCAGAGGAGGAAAATTA
TCTCCCTGCAAAGCCCGGTTCTACACAGATTTACAAAATTGTGCTAAGAACCGTCCGTGTTCTCAGAAAGCCCA
GTGTTTTTTGCAAAGAATGAAAAGGGACCCCATATGTAGCAAAAATCAGGGCTGGGGGAGAGCCGGGTTTCATTCCC
TGTCCTCATTGGTCGTCCCTATGAATTGTACGTTTCAGAGAAATTTTTTTTCTATGTGCAACACGAAGCTTCCA
GAACCATAAAATATCCCGTCGATAAGGAAAGAAAATGTCGTTGTTGTTGTTTTTCTGGAAACTGCTTGAAATCTT
GCTGTACTATAGAGCTCAGAAGGACACAGCCCGTCTCCCTGCCTGCCTGATTCCATGGCTGTTGTGCTGATTTC
CAATGCTTTTACGTTGGTTTCTGGCGTGGGAACCTGCTCTCCTTTGCAGCCCCATTTCCCAAGCTCTGTTCAAGTT
AACTTATGTAAGCTTTCCGTGGCATGCGGGGCGCGACCCACGTCCCCGCTGCGTAAGACTCTGTATTGTGGATG
CCAATCCACAGGCCTGAAGAACTGCTTGTTGTGTATCAGTAATCATTAGTGGCAATGATGACATTCTGAAAAGC
TGCAATACTTATACAATAAATTTTACAATTCTTTGG

6305/6881
FIGURE 5824

GCGCGCCACCCGGTAGAGGACCCCGCCCGTGCCCCGACCGGTCCCCGCCTTTTTGTAAACTTAAAGCGGGCG
CAGCATTAACGCTTCCCGCCCCGGTGACCTCTCAGGGGTCTCCCCGCCAAAGGTGCTCCGCCGCTAAGGAACATG

GCGAAGGTGGAGCAGGTCCTGAGCCTCGAGCCGACGACGAGCTCAAATTCCGAGGTCCCTTCACCGATGTTGTC
ACCACCAACCTAAAGCTTGGCAACCCGACAGACCGAAATGTGTGTTTTAAGGTGAAGACTACAGCACCACGTAGG
TACTGTGTGAGGCCAACAGCGGAATCATCGATGCAGGGGCTCAATTAATGTATCTGTGATGTTACAGCCTTTC
GATTATGATCCCAATGAGAAAAGTAAACACAAGTTTATGGTTCAGTCTATGTTTGCTCCAAGTACACTTCAGAT
ATGGAAGCAGTATGGAAGGAGGCAAAACCGAAGACCTTATGGATTCAAACTTAGATGTGTGTTGAATTGCCA
GCAGAGAATGATAAACCACATGATGTAGAAATAAATAAAATTATATCCACAAGTGCATCAAAGACAGAAACACCA
ATAGTGTCTAAGTCTCTGAGTCTTCTTTGGATGACACCGAAGTTAAGAAGGTTATGGAAGAATGTAAGAGGCTG
CAAGGTGAAGTTCAGAGGCTACGGGAGGAGAACAAGCAGTTCAAGGAAGAAGATGGACTGCGGATGAGGAAGACA
GTGCAGAGCAACAGCCCCATTTAGCATTAGCCCCAACTGGGAAGGAAGAAGGCCTTAGCACCCGGCTCTTGGCT
CTGGTGGTTTTGTCTTTATCGTTGGTGTAATTATTGGGAAGATTGCCCTGTAGAGGTAGCATGCACAGGATGGT
AAATTGGATTGGTGGATCCACCATATCATGGGATTTAAATTTATCATAACCATGTGTAAAAAGAAATTAATGTAT
GATGACATCTCACAGGTCTTGCCTTTAAATTACCCCTCCCTGCACACACATACACAGATACACACACACAAATAT
AATGTAACGATCTTTTAGAAAAGTTAAAAATGTATAGTAACTGATTGAGGGGGAAAAGAATGATCTTTATTAATGA
CAAGGGAAACCATGAGTAATGCCACAATGGCATATTGTAAATGTCATTTTAAACATTGGTAGGCCTTGGTACATG
ATGCTGGATTACCTCTCTTAAATGACACCCTTCCTCGCTGTTGGTGCTGGCCCTTGGGGAGCTGGAGCCAGC
ATGCTGGGGAGTGCAGTCCACACAGTAGTCCCCACGTGGCCCACTCCCGGCCAGGCTGCTTTCCGTGTC
TTCAGTTCTGTCCAAGCCATCAGCTCCTTGGGACTGATGAACAGAGTCAGAAGCCCAAAGGAATTGCACTGTGGC
AGCATCAGACGTACTCGTCATAAGTGAGAGGCGTGTGTTGACTGATTGACCCAGCGCTTTGGAAATAAATGGCAG
TGCTTTGTTCACTTAAAGGGACCAAGCTAAATTTGTATTGGTTCATGTAGTGAAGTCAAAGTGTATTTCAGAGAT
GTTTAATGCATATTTAACTTATTTAATGTATTTTCATCTCATGTTTCTTATTGTCACAAGAGTACAGTTAATGCT
GCGTGCTGCTGAAGTCTGTTGGGTGAAGTGGTATTGCTGCTGGAGGGCTGTGGGCTCCTCTGTCTCTGGAGAGTC
TGGTCATGTGGAGGTGGGGTTTATTGGGATGCTGGAGAAGAGCTGCCAGGAAGTGTCTTTCTGGGTCAGTAAAT
AACAACTGTCATAGGCAGGGAATTTCTCAGTAGTGACAGTCAACTCTAGGTTACCTTTTTTAATGAAGAGTAGTC
AGTCTTCTAGATTGTTCTTATACCACCTCTCAACCATTACTCACACTTCCAGCGCCAGGTCCAAGTTTGAGCCT
GACCTCCCCCTTGGGGACCTAGCCTGGAGTCAGGACAAATGGATCGGGCTGCAAAGGGTTAGAAGCGAGGGCACCA
GCAGTTGTGGGTGGGGAGCAAGGGAAGAGAGAACTCTTCAGCGAATCCTTCTAGTACTAGTTGAGAGTTTGACT
GTGAATTAATTTTATGCCATAAAAGACCAACCCAGTTCTGTTTGACTATGTAGCATCTTGAAAAGAAAAATTATA
ATAAAGCCCCAAAATTAAGA

6306/6881
FIGURE 5825

MAKVEQVLSLEPQHELKFRGPFTDVVTTNLKLGNP TDRNVC FKVKT TAPRRYCVRPNSGIIDAGASINVSVM LQP
FDYDPNEKSKHKFMVQSMFAP TDTSDMEAVWKEAKPEDLMD SKLR CVFELPAENDKPHDVEINKIISTTAS KTET
PIVSKSLSSSLDDTEVKKVMEECKRLQGEVQRLREENKQFKEEDGLRM RKT VQSN SPI SALAPTGKEEGLSTRLL
ALVVLFFIVGVIIGKIAL

6307/6881
FIGURE 5826

CTCGCCTCAGTCTCCTCTGTCTCTCCCAGGCAAGAGGACCGGCGGAGGCACCTCTCTCGAGTCTTAGGCTGCGG
AATCTAAGACTCAGCGAGAGGAGCCCCGGGAGGAGACAGAACTTTCCCTTTTTTCCCATCCCTTCTTCTTGCTCA
GAGAGGCAAGCAAGGCGCGGAGCTTTAGAAAGTTCTTAAGTGGTCAGGAAGGTAGGTGCTTCCCTTTTTTCTCCTC
ACAAGGAGGTGAGGCTGGGACCTCCGGGCCAGCTTCTCACCTCATAGGGTGTACCTTTCCCGGCTCCAGCAGCCA
ATGTGCTTCGGAGCCGCTCTCTGCAGAGCCAGAGGCGAGGCCGGCTTCTCGGTGTGTGCCTAAGAGGATGGATCG
GAGGTCCCGGGCTCAGCAGTGGCGCCGAGCTCGCCATAATTACAACGACCTGTGCCCGCCCATAGGCCGCGGGC
AGCCACCGCGCTCCTCTGGCTCTCCTGCTCCATCGCGCTCCTCCGCGCCCTTGCCACCTCCAACGCCCCGTGCCCA
GCAGCGCGCGGCTGCCCAACAGCGCCGGAGCTTCTTAACGCCCCACCACCGCTCCGGCGCCCAAGGTATTCCCTGA
GTCCCCCGAATCGGAATCTGACCACGAGCACGAGGAGGCAGACCTTGAGCTGTCCCTCCCGAGTGCCTAGAGTA
CGAGGAAGAGTTTCGACTACGAGACCGAGAGCGAGACCGAGTCCGAAATCGAGTCCGAGACCGACTTCGAGACCGA
GCCTGAGACCGCCCCACCACCTGAGCCCCGAGACCGAGCCTGAAGACGATCGCGGCCCGGTGGTGCCCAAGCACTC
CACCTTCGGCCAGTCCCTCACCCAGCGTCTGCACGCTCTCAAGTTGCGAAGCCCCGACGCTCCCAAGTCGCGC
GCCGCCCAGCACTCAGGAGCCCCAGAGCCCCAGGGAAGGGGAGGAGCTCAAGCCCGAGGACAAAGATCCAAGGGA
CCCCGAAGAGTCGAAGGAGCCCCAAGGAGGAGAAGCAGCGGCGTCTGCAAGCCAAAGAAGCCACCCGCCGTGA
CGCGTCCCGGAGTCCCTTCCAAAAAGGGACCCATCCCATCCGGCGTCACTAATGGAGGACGCCGTCCAGATT
CTCCTTGTTTTTCATGGATTGAGTGTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGATGAGGATCCTGCAT
GTTAATGGGTTTAAATGGAGAGGGCGGCGAAGAGGACCCGAGGCTGCAAGGAGCAACAGCGATGGCAGTGAGAAG
GCAACCAAAGTGCAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATGTGGCCGCCATGAGCAACCTG
GTGCCCCCGTGGAGCTGGCCAACCCCGAGAACCAGTTTCAAGTGGACTACATCCTGAGTGTGATGAACGTGCCT
GACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCCTGCCTGTAC
GAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCAGTACTTCTGGACAAGATCGACGTGATCAAGCAGGCT
GACTATGTGCCGAGCGATCAGGACCTGCTTCGCTGCCGTGTCTGACTTCTGGAATCTTTGAGACCAAGTTCCAG
GTGGACAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATCCAGTGCTTC
AACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTCATCCGGGAGGACAACCAGACC
AACCGCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCATCTCTGTGATC
CTGTTCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCCTTGCTGGGAAATCGAAGATTGAGGACTACTTTCCA
GAATTTGCTCGCTACACTACTCTTGAGGATGCTACTCCCGAGCCCGGAGAGGACCCACGCGTGACCCGGGCCAAG
TACTTCATTGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCTACCCCTCATTTT
ACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTCAGCGCATGCACCTT
CGTCAGTACGAGCTGCTCTAAGAAGGGAACCCCAAATTTAATTAAAGCCTTAAGCACAAATTAATTAAGTGAA
ACGTAATTGTACAAAGCAGTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCCCCGAGTGA
TTTTGCGAAACCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAAGCTTAAGGCGGCCTACAGAAA
AAGGAAAAAAGGCCACAAAAGTTCCCTCTCACTTTTCAAGTAAAAATAAATAAAACAGCAGCAGCAACAAATAAAA
TGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAAAAAAATCAAAATAAAATTAATGTG
AGCAAAGAAAAA

6308/6881
FIGURE 5827

MDRRSRAQQWRRARHNYNDLCPPIGRRAATALLWLSCSIALLRALATSNARAQQRAAAQQRRSFLNAHHRSGAQV
FPESPESESDHEHEEADLELSLPECLEYEEEFDYETESETESEIESETDFETEPETAPTTEPETEPEDDRGPVVP
KHSTFGQSLTQRLHALKLRSPPDASPSRAPSTQEPQSPREGEELKPEDKDPRDPEESKEPKKEKQRRRCKPKKPT
RRDASPESPSKKGPIPIRRH

6309/6881
FIGURE 5828

ATGCAGGCCTTGAGGCTTCGGCCAGCACTCATGGAGCCCGAGCCTTCAGTGGTGCCAGACCAGGCCTGGGAGGA
TACAGCCCTCCACCAGAAGAAGCTATGCCCTTTGAGTTTGACCAGCCTGCCAGAGAGGCTGCAGTCAACTTCTC
TTACAGGTCCCAGACCTTGCTCCAGGAGGCCAGGTGCTGCAGGGGTCCCCGAGCTCCTCCCGAGGAGCCCCAA
GCCCTCAGGCCTGCAAAGGCTGGCTCCAGAGGAGGTACAGCCCTCCCCCTGAGGAGACTATGCCATTTGAGCTT
GATGGAGAAGGATTTGGGGACGACAGCCCACCCCCGGGGCTTTCCCGAGTTATCGCACAAAGTCGACGGCAGCAGC
CAGTTCGCGGCAGTCGCGGCCTCGAGTGCAGTCCGCCTCACTCCCGCCGCAACGCGCCTCCCCCTCTGGGTCCCCA
GGCGCCATCGGCAGCCCATCCCAAGAGGCTGTCAGACCTCCTTCTAACTTCACGGGCAGCAGCCCCTGGATGGAG
ATCTCCGGACCCCCGTTTCGAGATTGGCAGCGCCCCCGCTGGGGTTCGACGACACTCCCGTCAACATGGACAGCCCC
CCAATCGCGCTTGACGGCCCGCCCATCAAGGTCTCCGGAGCCCCAGATAAGAGAGAGCGAGCAGAGAGACCCCCA
GTTGAGGAGGAAGCAGCAGAGATGGAAGGAGCCGCTGATGCCGCGGAGGGAGGAAAAGTACCCTCTCCGGGGTAC
GGATCCCCCTGCCGCGGGGGCAGCCTCAGCGGATACCGCTGCCAGGGCAGCCCCTGCAGCCCCAGCCGATCCTGAC
TCCGGGGCAACCCAGAAGATCCCGACTCCGGGACAGCACCAGCCGATCCTGACTCCGGGGCATTTCGACGCCGAT
CCCGACTCCGGGGCAGCCCCTGCCGCCCCAGCCGATCCCGACTCCGGGGCGGGCCCTGACGCCCCAGCCGATCCC
GACTCCGGGGCGGGCCCTGACGCCCCAGCCGATCCAGATGCCGGGGCGGGCCCTGAGGCTCCCGCCGCCCTGCG
GCTGCTGAGACCCGGGCAGCCCATGTGCCCCAGCTGCGCCAGACGCAGGGGCTCCCACTGCCCCAGCCGCTTCT
GCCACCCGGGCAGCCCAAGTCCGCCGGGCGGCCTCTGCAGCCCTGCCTCCGGGGCCAGACGCAAGATCCATCTC
AGACCCCCCAGCCCCGAGATCCAGGCTGCCGATCCGCCTACTCCGCGGCCTACTCGCGCTCTGCTGGCGGGC
AAGTCCGAGAGCAGCCGCGGCCGCCGCTGTACTACGATGAAGGGGTGGCCAGCAGCGACGATGACTCCAGCGGA
GACGAGTCCGACGATGGGACCTCCGGATGCCTCCGCTGGTTTCAGCATCGGCGAAATCGCCGCCGCCGAAAGCCC
CAGCGCAACTTACTCCGCAACTTCTCGTGCAAGCCTTCGGGGGCTGCTTCGGTCGATCTGAGAGTCCCCAGCCC
AAAGCCTCGCGCTCTCTCAAGGTCAAGAAGGTACCCCTGGCGGAGAAGCGCAGACAGATGCGCAAAGAAGCCCTG
GAGAAGCGGGCCCCAGAAGCGCGCAGAGAAGAAACGCAAGTAAAGCTCATCGACAAACAACCTCCAGGACGAAAAGATG
GGCTACATGTGTACGACCGCCTGTGCTTCTAGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGATG
AGGATCCTGCATGTTAATGGGTTTAATGGAGAGGGCGGCGAAGAGGACCCGCGAGGCTGCAAGGAGCAACAGCGAT
GGTGAGAAGGCAACCAAAGTGCAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATTGTGGCCGCCATG
AGCAACCTGGTGCCCCCGTGGAGCTGGCCAACCCCGAGAACCAGTTTCAGAGTGGACTACATCCTGAGTGTGATG
AACGTGCCTGACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCGT
GCCTGCTACGAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCAGTACTTCCTGGACAAGATCGACGTGATC
AAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTCGCTGCCGTGTCTGACTTCTGGAATCTTTGAGACC
AAGTTCCAGGTGGACAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATC
CAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTTCATCCGGGAGGAC
AACCAGACCAACCGCCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCATC
TCTGTGATCCTGTTTCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCCTTGCTGGGAAAATCGAAGATTGAGGAC
TACTTTCCAGAATTTGCTCGCTACACTACTCCTGAGGATGCTACTCCCGAGCCCGGAGAGGACCCACGCGTGACC
CGGGCCAAGTACTTTCATTTCGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCTAC
CCTCATTTACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTCAGCGC
ATGCACCTTCGTACAGTACGAGCTGCTCTAAGAAGGGAACCCCCAAATTTAATTAAAGCCTTAAGCACAAATTAATT
AAAAGTGAAACGTAATTGTACAAGCAGTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCC
CCCGAGTGATTTTGGCAAACCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGGCGGC
CTACAGAAAAAGGAAAAAAGGCCACAAAAGTTCCCTCTCACTTTTCAGTAAAAATAAATAAAACAGCAGCAGCAAA
CAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAAAAAAAATCAAATAAAAA
TTAAATGTGAGCAAAG

6310/6881
FIGURE 5829

MQALRLRPALMEPGAFSGARPGLGGYSPPPEEAMPFEFDQPAQRGCSQLLLQVPDLAPGGPGAAGVPGAPPPEEQ
ALRPAKAGSRGGYSPPPEETMPFELDGEFGDDSPPPGLSRVIAQVDGSSQFAAVAASSAVRLTPAANAPPLWVP
GAIGSPSQEAVRPPSNFTGSSPWMEISGPPFEIGSAPAGVDDTPVNMDSPPIALDGPPIKVSGAPDKRERAERPP
VEEEAAEMEGAADAAEGGKVPSPGYGSPAAGAASADTAARAAPAAPADPD SGATPEDPD SGTAPADPD SGAFAD
PD SGAAPAAPADPD SGAAPDAPADPD SGAAPDAPADPDAGAAPEAPAPAAAETRAAHVAPAAPDAGAPTAPAA
ATRAAQVRRASAAPASGARRKIHLRPPSPEIQAADPPTPRPTRASAWRGKSESSRGRVYYDEGVASSDDDDSSG
DEDDGTSGCLRWFAQHRRNRRRRKQORNLLRNFLVQAFGGCFGRSESPQPKASRSLKVKKVPLAEKRRQMRKEAL
EKRAQKRAEKKRSKLIDKQLQDEKMGYMCTHRLLLLGAGESGKSTIVKQMRILHVNGFN GEGGEEDPQAARSNSD
GEKATKVQDIKNNLKEAIETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHAKALWEDEGVR
ACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFETKFQVDKVNFMFDVGGQDERRKWI
QCFNDVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEKVLAGKSKIED
YFPEFARYTTPEDATPEPGEDPRVTRAKYFIRDEFRLISTASGDGRHYCYPHFTCAVD TENIRRVFNDCRDI IQR
MHLRQYELL

6311/6881
FIGURE 5830

CCGCCGCCGCCGAGCCCGGCCGCGCCCCGCCGCCGCCGCCGCCGCCATGGGCTGCCTCGGGAACAGTAAGACCG
AGGACCAGCGCAACGAGGAGAAGGCGCAGCGTGAGGCCAACAAAAAGATCGAGAAGCAGCTGCAGAAGGACAAGC
AGGTCTACCGGGCCACGCACCGCCTGCTGCTGCTGGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGA
TGAGGATCCTGCATGTTAATGGGTTTAATGGAGAGGGCGGCGAAGAGGACCCGAGGCTGCAAGGAGCAACAGCG
ATGGTGAGAAGGCAACCAAAAGTGCAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATTGTGGCCGCCA
TGAGCAACCTGGTGCCCCCGTGGAGCTGGCCAACCCCGAGAACCAGTTCAGAGTGGACTACATCCTGAGTGTGA
TGAACGTGCCTGACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGC
GTGCCTGCTACGAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCCAGTACTTCCTGGACAAGATCGACGTGA
TCAAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTCGCTGCCGTGTCTGACTTCTGGAATCTTTGAGA
CCAAGTTCCAGGTGGACAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGGA
TCCAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTCATCCGGGAGG
ACAACCAGACCAACCGCCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCA
TCTCTGTGATCCTGTTCCCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCCTTGCTGGGAAATCGAAGATTGAGG
ACTACTTTCCAGAATTTGCTCGCTACACTACTCCTGAGGATGCTACTCCCGAGCCCGGAGAGGACCCACGCGTGA
CCCGGGCCAAGTACTTCATTCGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCT
ACCCTCATTTACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTGAGC
GCATGCACCTTCGTGAGTACGAGCTGCTCTAAGAAGGGAACCCCCAAATTTAATTAAAGCCTTAAGCACAAATTAA
TTAAAAGTGAAACGTAATTGTACAAGCAGTTAATCACCCACCATAGGGCATGATTAAACAAAGCAACCTTTCCCTT
CCCCGAGTGATTTTGCGAAACCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGGCG
GCCTACAGAAAAAGGAAAAAGGCCACAAAAGTTCCCTCTCACTTTCAGTAAAAATAAATAAAACAGCAGCAGCA
AACAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAAAAAAATCAAAATAAA
AATTAAATGTGAGCAAAG

6312/6881
FIGURE 5831

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTIVKQMRILHVNGFNNEGEGEE
DPQAARSNSDGEKATKVQDIKNNLKEALETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHA
KALWEDEGVRACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSQDLLRCRVLTSGIFETKFQVDKVNFMFDVG
GQDERRKWIQCFNDVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEK
VLAGKSKIEDYFPEFARYTTPEDATPEPGEDPRVTRAKYFIRDEFLRISTASGDGRHYCYPHFTCAVDTENIRRV
FNDCRDIIQRMHLRQYELL

6313/6881
FIGURE 5832

CCGCCGCCGCCGAGCCCGGCCGCCCGGCCGCCGCCGCCGCCGCCATGGGCTGCCTCGGGAACAGTAAGACCG
AGGACCAGCGCAACGAGGAGAAGGCGCAGCGTGAGGCCAACAAAAAGATCGAGAAGCAGCTGCAGAAGGACAAGC
AGGTCTACCGGGCCACGCACCGCCTGCTGCTGCTGGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGA
TGAGGATCCTGCATGTTAATGGGTTTAATGGAGACAGTGAGAAGGCAACCAAAGTGCAGGACATCAAAAAACAACC
TGAAAGAGGCGATTGAAACCAATTGTGGCCGCCATGAGCAACCTGGTGCCCCCGTGGAGCTGGCCAACCCCGAGA
ACCAGTTCAGAGTGGACTACATCCTGAGTGTGATGAACGTGCCTGACTTTGACTTCCCTCCCGAATTCTATGAGC
ATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCCTGCTACGAACGCTCCAACGAGTACCAGCTGATTGACT
GTGCCCAGTACTTCTGGACAAGATCGACGTGATCAAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTC
GCTGCCGTGTCTGACTTCTGGAATCTTTGAGACCAAGTTCCAGGTGGACAAAGTCAACTTCCACATGTTTGACG
TGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATCCAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGG
CCAGCAGCAGCTACAACATGGTCATCCGGGAGGACAACCAGACCAACCGCCTGCAGGAGGCTCTGAACCTCTTCA
AGAGCATCTGGAACAACAGATGGCTGCGCACCATCTCTGTGATCCTGTTCCCTCAACAAGCAAGATCTGCTCGCTG
AGAAAGTCCTTGCTGGGAAATCGAAGATTGAGGACTACTTTCCAGAATTTGCTCGCTACACTACTCCTGAGGATG
CTACTCCCGAGCCCGGAGAGGACCCACGCGTGACCCGGGCCAAGTACTTCATTTCGAGATGAGTTTCTGAGGATCA
GCACTGCCAGTGGAGATGGGCGTCACTACTGCTACCCTCATTTACCTGCGCTGTGGACACTGAGAACATCCGCC
GTGTGTTCAACGACTGCCGTGACATCATTCAGCGCATGCACCTTCGTCAGTACGAGCTGCTCTTAGAAGGGAACC
CCCAAATTTAATTAAAGCCTTAAGCACAATTAATTAAAAGTGAAACGTAATTGTACAAGCAGTTAATCACCACC
ATAGGGCATGATTAAACAAAGCAACCTTTCCCTTCCCCGAGTGATTTTGCGAAACCCCTTTTCCCTTCAGCTTG
CTTAGATGTTCCAAATTTAGAAAGCTTAAGGCGGCCTACAGAAAAAGGAAAAAGGCCACAAAAGTTCCCTCTCA
CTTTCAGTAAAAATAAATAAAACAGCAGCAGCAAACAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATT
GTGTTGTGCAGCATTAATAAAAAATCAAAATAAAATTAATGTGAGCAAAG

6314/6881
FIGURE 5833

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTIVKQMRILHVNGFNGDSEKA
TKVQDIKNNLKEAIETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHAKALWEDEGVRACYE
RSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFETKFQVDKVNFMFDVGGQDERRKWIQCFN
DVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEKVLGKSKIEDYFPE
FARYTTPEDATPEPGEDPRVTRAKYFIRDEFRLISTASGDGRHYCYPHFTCAVDTENIRRVFNDCRDI IQRMHLR
QYELL

6315/6881
FIGURE 5834

GGGGTCGGCCGGGTGCTGGGCCGAGGCCGAGGCCGGGGCGGGATCCAGAGCGGGAGCCGGCGCGGGATCTGGGAC
TCGGAGCGGGATCCGGAGCGGGACCCAGGAGCCGGCGCGGGGCCATGGCGAGGCGCGGGCCAGGGTGGCGGCCGC
TTCTGCTGCTCGTGCTGCTGGCGGGCGCGGCGCAGGGCGGGCCTCTACTTCCGCCGGGGACAGACCTGCTACCGGC
CTCTGCGGGGGACGGGCTGGCTCCGCTGGGGCGCAGCACATAACCCCGGCCTCATGAGTACCTGTCCCCAGCGG
ATCTGCCCAAGAGCTGGGACTGGCGCAATGTGGATGGTGTCAACTATGCCAGCATCACCCGGAACCAGCACATCC
CCCAATACTGCGGCTCCTGCTGGGCCACGCCAGCACCGCGCTATGGCGGATCGGATCAACATCAAGAGGAAGG
GAGCGTGGCCCTCCACCCTCCTGTCCGTGCAGAACGTCATCGACTGCGGTAACGCTGGCTCCTGTGAAGGGGGTA
ATGACCTGTCCGTGTGGGACTACGCCACCAGCACGGCATCCCTGACGAGACCTGCAACAACCTACCAGGCCAAGG
ACCAGGAGTGTGACAAGTTTAACCAATGTGGGACATGCAATGAATTCAAAGAGTGCCACGCCATCCGGAACCTACA
CCCTCTGGAGGGTGGGAGACTACGGCTCCCTCTCTGGGAGGGAGAAGATGATGGCAGAAATCTATGCAAATGGTC
CCATCAGCTGTGGAATAATGGCAACAGAAAGACTGGCTAACTACACCGGAGGCATCTATGCCGAATACCAGGACA
CCACATATATAAACCATGTCGTTTCTGTGGCTGGGTGGGGCATCAGTGATGGGACTGAGTACTGGATTGTCCGGA
ATTCATGGGGTGAACCATGGGGCGAGAGAGGCTGGCTGAGGATCGTGACCAGCACCTATAAGGATGGGAAGGGCG
CCAGATACAACCTTGCCATCGAGGAGCACTGTACATTTGGGGACCCATCGTTTAAGGCCATGTCACTAGAAGCG
CAGTTTAAGAAAAGGCATGGTGACCCATGACCAGAGGGGATCCTATGGTTATGTGTGCCAGGCTGGCTGGCAGGA
ACTGGGGTGGCTATCAATATTGGATGGCGAGGACAGCGTGGCACTGGCTGCGAGTGTTCTGAGAGTTGAAAGTG
GGATGACTTATGACACTTGCACAGCATGGCTCTGCCTCACAATGATGCAGTCAGCCACCTGGTGAAGAAGTGACC
TGCGACACAGGAAACGATGGGACCTCAGTCTTCTTCAGCAGAGGACTTGATATTTTGTATTTGGCAACTGTGGGC
AATAATATGGCATTTAAGAGGTGAAAGAGTTCAGACTTATCACCATTCTTATGTCACTTTAGAATCAAGGGTGGG
GGAGGGAGGGAGGGAGTTGGCAGTTTCAAATCGCCCAAGTGATGAATAAAGTATCTGGCTCTGCACGAG

6316/6881
FIGURE 5835

MARRGPGWRPLLLLVLLAGAAQGGLYFRRGQTCYRPLRGDGLAPLGRSTYPRPHEYLSPADLPKSWDWRNVDGVN
YASITRNQHIPQYCGSCWAHASTSAMADRINIKRKGAWPSTLLSVQNVIDCGNAGSCEGGNDLSVWDYAHQHGP
DETCNNYQAKDQECDKFNQCGTCNEFKECHAIRNYTLWRVGDYGSLSGREKMMAEIYANGPISCGIMATERLANY
TGGIYAEYQDTTYINHVVSVAGWGISDGTEYWIVRNSWGEWGERGWLRIVTSTYKDGKGARYNLAIEEHCTFGD
PIV

6317/6881
FIGURE 5836

CGGGTAGCGCGCTCTGAAAGTTTATGACCGCCGCAGCCAACCTCTGGCCGGAGCTGGAGACGCAGCGAGCGATCG
GCCGGCCTCGAACCCCCACAGCTGGAGGGCGAGGCCAGCTGTACCCGGCCCCAGTGCCCTTTTCGCGGCCACAAGC
GGCCGTCTCTGGTCCGGTGCTCCGGCGCCTGATCTAGGTTCA**ATG**GAGCCGGGGCTGTGGCTCCTTTTCGGGGCT
CACAGTGACCTCCGCCGCAGGATTTCGTGCCTTGCTCCCAGTCTGGGGATGCTGGCAGGCGCGGCGTGTCCCAGGC
CCCCACTGCAGCCAGATCTGAGGGGGACTGTGAAGAGACTGTGGCTGGCCCTGGCGAGGAGACTGTGGCTGGCCC
TGGCGAGGGGACTGTGGCCCCGACAGCACTGCAGGGTCCAAGCCCTGGAAGCCCTGGGCAGGAGCAGGCGGCCGA
GGGGGCCCTGAGCACCACCGATCCAGGCGCTGCACGTGCTTCACCTACAAGGACAAGGAGTGTGTCTACTATTG
CCACCTGGACATCATTGGATCAACACTCCCGAACAGACGGTGCCCTATGGAAGTGTCCAAGTACAGAGGAAGCTT
CCGGGGCAAGAGGTCTGCGGGGCCACTTCCAGGGAATCTGCAGCTCTCACATCGGCCACACTTGCCTGCGCTTG
TGTGGGGAGATATGACAAGGCTGCCTGCACTTTTGCACCCAACTCTGGACGTGAGCAGTAATTCAAGGACGGC
AGAAAAACAGACAAAGAAGAGGAAGGGAAGGTTGAAGTCAAGGACCAACAAAGCAAGCAGGCTTTAGACCTCCA
CCATCCAAAGCTCATGCCCGCGAGTGGACTCGCCCTCGCTCCATCTACCTGCCCCCGCTGCCTCTTTTCAGGAAGG
AGCCCTT**AGG**AGGACAGGCTGCAGCTCCAATTTTCATGCAGGAAATTGGTTTTGGAGAGTTTTGGCAAGTTGGA
AAGCCACTTACTGGCTTTTGGACATGACTTCTCTTGGAGAATAAGTGGACTCCAAGCTAACTCTTTGCAAAATGTAA
ACACATGTCCATCTTGTAAATAAATGCAAAATGCCCGTGCAGCAGAAGCATGCGACTTTCATATCCTTGCCCTAGA
ATAGGCTGCATGGTGTATGTCAGTGAGGGCCACGAGGCGTCGGCTTTAGACACAGATCATAGCTCTACAGGAGTT
TATGAATTTGAAGCTTATGGGATTTTGGCAGAGAAATTTTCAGCTGTGCTTGATACCCACCAAAAGAATGTATCT
CGAAAGAATGAAGGAAGAAGAAAAAGGATCCTTGATGTTTGTGACAAGAAAATGAGAAAGTTAGTATCTGCAAT
ACAGAGCTTGTTCTGTTCAGTGACTGACCCTCTGTATTCTGTATAGACACCAGGCCGATACACAGTGGAGTTCC
CAGGCCTTGTTTGCAGGAAGCCGACTGTAAAGACAGCCCCAGCTCAAGGCTATTAGGTTGAATATTTGCTTTTCAT
GAGTAAATGTGGATCTTTGGGGAATGGCTTCAAAATAAGTCACGAACACAAATCTTTGTAAATTATGTAAATTC
CTGTTTATATAAATTGGCAACAACTTATACCGTCTGACAGTTCAAAATCTCTTTTCAGCTGCGCTCTTCCCACCGA
GCCGAGCTTACTGTGAGTGTGGAGATGTTATCCACCATGTAAAGTCGCCTGCGCAGGGGAGGGCTGCCCATCTC
CCCAACCCAGTCACAGAGAGATAGGAAACGGCATTGAGTGGGTGTCCAGGGCCCCGTAGAGAGACATTTAAGAT
GGTGTATGACAGAGCATTGGCCTTGACCAAATGTTAAATCCTCTGTGTGTATTTTATAAGTTATTACAGGTATAA
AAGTGATGACCTATCATGAGGAAATGAAAGTGGCTGATTTGCTGGTAGGATTTTGTACAGTTTAGAGAAGCGATT
ATTTATTGTGAACTGTTCTCCACTCCAACCTCCTTTATGTGGATCTGTTCAAAGTAGTCACTGTATATACGTATA
GAGAGGTAGATAGGTAGGTAGATTTTAAATTGCATTCTGAATACAACTCATACTCCTTAGAGCTTGAATTACAT
TTTTAAATGCATATGTGCTGTTTGGCACCGTGGCAAGATGGTATCAGAGAGAAACCCATCAATTGCTCAAATAC
TCAGAAAGTACTGTCAAAAGCCTAATAAAAAACCTAAAGTTTGCTCTG

6318/6881
FIGURE 5837

MEPGLWLLFGLTVISAAGFVPCSQSGDAGRRGVSQAPTAARSEGDCEETVAGPGEETVAGPGEGTVAPTALQGPS
PGSPGQEQAAEGAPEHHRSSRRTCTFTYKDKECVYYCHLDIIWINTPEQTVPYGLSNYRGSFRGKRSAGPLPGNLQ
LSHRPHLRCAVCGRYDKACLHFCTQTLDVSSNSRTAEKTDKEEGKVEVKDQQSKQALDLHHPKLMPGSGLALAP
STCPRCLFQEGAP

6319/6881
FIGURE 5838

GGCACGAGGCGGCCGCCCGCCGGCATGAGCTACGACCGCGCCATCACCGTCTTCTCGCCCGACGGCCACCTCTTC
CAAGTGGAGTACGCGCAGGAGGCCGTCAAGAAGGGCTCGACCGCGGTTGGTGTTTCGAGGAAGAGACATTGTTGTT
CTTGGTGTGGAGAAGAAGTCAGTGGCCAACTGCAGGATGAAAGAACAGTGCGGAAGATCTGTGCTTTGGATGAC
AACGTCTGCATGGCCTTTGCAGGCCTCACCGCCGATGCAAGGATAGTCATCAACAGGGCCCGGGTGGAGTGCCAG
AGCCACCGGCTGACTGTAGAGGACCCGGTCACTGTGGAGTACATCACCCGCTACATCGCCAGTCTGAAGCAGCGT
TATACGCAGAGCAATGGGCGCAGGCCGTTTGGCATCTCTGCCCTCATCGTGGGTTTCGACTTTGATGGCACTCCT
AGGCTCTATCAGACTGACCCCTCGGGCACATACCATGCCTGGAAGGCCAATGCCATAGGCCGGGGTGCCAAGTCA
GTGCGCGAGTTCCTGGAGAAGAACTATACTGACGAAGCCATTGAAACAGATGATCTGACCATTAAGCTGGTGATC
AAGGCACTCCTGGAAGTGGTTCAGTCAGGTGGCAAAAACATTGAACTTGCTGTCATGAGGCGAGATCAATCCCTC
AAGATTTTAAATCCTGAAGAAATTGAGAAGTATGTTGCTGAAATTGAAAAAGAAAAAGAAGAAAACGAAAAAGAG
AAACAAAAGAAAGCATCATGATGAAATAAAATGTCTTTGCTTGTAATTTTAAATTCATATCAATCATGGATGAGT
CTCGATGTGTAGGCCTTTCCATTCCATTTATTCACACTGAGTGTCTACAATAAACTTCCGTATTTTT

6320/6881
FIGURE 5839

MSYDRAITVFSPDGHLFQVEYAEAVKKGSTAVGVRGRDIVVLGVEKKSVAKLQDERTVRKICALDDNVCMAFAG
LTADARIVINRARVECQSHRLTVEDPVTVEYITRYIASLKQRYTQSNRRPFGISALIVGFDFDGTPLRYQTDPS
GTYHAWKANAIGRGAKSVREFLEKNYTDEAIETDDLTIKLVIKALLEVVQSGGKNIELAVMRRDQSLKILNPEEI
EKYVAEIEKEKEENEKKKQKKAS

6321/6881
FIGURE 5840A

GCAGCCGGAGTATCCACCTCGATGACCACGGGCTGAGCCCCGCGCCGCCACCAATGTCCGTGGCCTTCGCGTCTGC
CCGGCCAAGAGGCAAAGGGGAGGTTACGCAGCAAACCATCCAGAAGATGCTGGACGAGAACCACCACCTGATCCA
GTGCATCCTGGAGTACCAGAGCAAGGGCAAGACGGCCGAGTGCACGCAGTACCAGCAGATCCTGCACCGGAACCT
GGTATACCTGGCCACGATCGCAGACTCCAACCAGAACATGCAGTCCCTGCTTCCTGCCCCGCCCACGCAGAACAT
GAACCTGGGGCCTGGAGCCCTGACTCAGAGCGGCTCCAGCCAGGGCCTGCACTCTCAGGGCAGCCTGAGTGACGC
CATCAGCACGGGCCTGCCACCCTCCTCCCTCCTGCAGGGCCAGATTGGCAACGGGCCGAGCCACGTGTCCATGCA
GCAGACGGGCGCTAACACGCTGCCCACCACCTCCATGAGCATCTCTGGGCCCGGCTACAGCCACGCGGGACCCGC
CTCGCAGGGCGTCCCCATGCAGGGGCAAGGCACCATCGGCAACTACGTGTCTCGGACCAACATCAACATGCAGTC
CAACCCAGTCTCCATGATGCAGCAGCAGGCGGCCACGTCGCACTACAGCTCGGCGCAGGGCGGCAGCCAGCACTA
CCAGGGCCAGTCGTCCATCGCCATGATGGGGCAGGGCAGCCAGGGGAGCAGCATGATGGGGCAGCGGCCCATGGC
GCCCTACCGGCCCTCCAGCAAGGCTCTTCCAGCAGTACCTGGGCCAGGAGGAGTACTATGGCGAGCAGTACAG
CCACAGCCAGGGCGCCGCGGAGCCCATGGGCCAGCAGTACTACCCCGACGGCCATGGCGATTACGCCTACCAGCA
GTCATCCTACACGGAGCAGAGCTACGACCGGTCCTTCGAGGAGTCCACGCAGCACTACTATGAGGGGGGAAACTC
CCAGTACAGCCAGCAGCAGGCGGGTACCAGCAGGGTGCCGCGCAGCAGCAGACGTACTCCCAGCAGCAGTACCC
CAGCCAGCAGAGCTACCCCGGGCAGCAGCAGGGCTACGGGTCTGCCAGGGAGCCCCGTACAGTACCCCGGCTA
CCAGCAAGGCCAAGGCCAGCAGTACGGAAGCTACCGAGCACCGCAGACAGCGCCGTCTGCCAGCAGCAGCGGCC
CTACGGCTATGAACAGGGCCAGTATGGAATTAACCAGCAGTAAGGGACACACATTCTGGCTGGAGCCCTTGTGGT
AGCGTGTTTCATCCAGGGGCCGATGGGCTGGCGGCAGCTCTGGTGAATTGTGACATGTTGGTTACCTGTTCCGCC
AGTGCCACGTCTGCATGTGAAGCGTGCTCATTTTCATGCTGGGTATGACGCCGAGCGCACACCACTGGCGTGAGAC
AGCGCTTGGTGGTGTGATACTTTTGGTGCTGTGTATAGTATTGTATGTGCGGTACACGGAGAGGTATCCTTTTTTT
GTCCCCCGCCCCCTTCTCAATGTTTCTAGCTAGCTTTGGGGGTCATTTTGTTCATCAGAGCATTCTGTGCCAGGG
ACAGGACAGATCTCGAGGACACCACAGTCCACCTGTTCCCGTCAACAGACGTTAGGTCTCATTTTTCTCCTCATG
CAGTGTTGTAGTGTGGGTGTCAACTTTTTCTTTAACTGGCTACGCCACAGCTGGACACACATGCAGCCCCCTGGAG
GGCAGCCTCTTCCGTGTCCTCGATGGGGTGGGTGGGAGGGCATCTTCTGTGCGTTGGGTGAGTTTCTGTTACGTA
ACGAAAAGGATAAACATCTCCACGGGAGAGGCCACAGATGGCCACTTCCAGAGCTTGCCATTGCCTGTCTCTC
GCCAATTCGGTTTATCCAAAAGGTACATGTTTTTGTATTAAAAAGTAAACAGGGATCAGTGACTGTATTCCAAA
TAAATATGAATCCCTAAGGGCCGTGGACAAATTGCCTAACCCAGGGCCAGCGGTATTGCTGAAGGAAAGGGGCAG
CTCTCTGGGAAGTGGGCCCTCAGAGATTACTCTGGCTTTGACCCTTGTTTTAGCTGATGGTCATTTCTGGGATTGG
AATATTTAATAAGCCCAATTCTAAGTTGATAGGTAATTTTAAATATTCAAACCAATCTTCCCAACAGTTGGCAA
GTTGTTTTATTTTATATTATTTCTTCCAGGACCTACTTGCTCAGATCTCCAAGCAAGCATTTCTTTTCTTTAGGG
ATGTCTGAAAGTCACATCCAGTTACATTACTGTGTTCTTTCTAATGAAAAGTAAAGTTTTATATAGAGAACTT
GAGTAATTTTTACATTTCTAAGACATTAAATCCCATTAAATTTCTGTGTGAACATTAAAGACAGCACACTTGCAA
AAGTATGGTCAAAGGAAAAAATCCACATTTCAATTAACAAGTAGCATGGACATTTGATCAACCTTTAGTTGGA
ATAATAATATTCATATTTGCTATGAATCCTTTTAAAAAATCTTTGGATAAATGCTGACAGATTTCCAAGAATA
CCAAGAAAATACAAGAGATATCCAATGCTTGATATATGAGGCCTAGTAATAACGATATTTCTCTTTAATTGATGT
TTTGTTTTAAAGTTAAAGTAATTCTTGCGTGTTGGTTCACGCCTGTAATCCAGCACTTTGGGAGGCCGAAG
CGGGCGGATCACCTGAGGTCGGGAGTTCGAGACCAGCCTGACCAACATGGAGAAACCCGTCCTACTAAAAATA
CAAAATTAGCCAGGTATGGTGGTGCATACCTGTAATCCAGCTACTCGGGAACCTGAGGCAGGAGAATGGCTTGA
ACCCAGGAGACAGAGTTGTGGTGGGGCAAGATCGCACCATTTGCACCCGAGCCTAGGCAACAAGAGTGAAATTCC
GTCTCAAAAAAATAAATAAATAAATAAATAAAGTTAAATTAATTCTTTATCCAGAGTCGGGTGCTTTAGAA
TTTATAAGTCACTTATGTGTTTTGCTTGAATTAATTCTGACAGCCCCTATGAGGAAATCTGGAGGCAGGTAACAG
TTCCCATTTTAGAGATGAAGAACTGAGGCACAGATTAAAGGACTTGCCGTGTGTTGAATACCAGTCTGTTCTAGG
ACATTCTCCCTCTCCTAGGAGACGGATGTCACGCACAAATGGGGAGAGAAGTGTATTTTGTAGGCACTAAGG
GTTTCTAAAACCTTAACACTGGTAAGGGCTCAAAAATAAACGTATGTGTTTCATATTTCGATCACCGAAATGAGAG
TTCTTAATTGCTAATTGACAAACGCGTTAGCAATTTTCAGTTAGGGAGTCATCTCCCTTGATTGTGTTCTTTCTCT
GTCAATTTTCATAGACCTAATTTGCAAACTCAATCGGGGACTAAATTTCCCACTGAAAATGTTAAACATTTTAG
ATAACTGTGAAGATAGTTTTATTTTTATTCCTTGCCAATCTGGGAATATGCCTTTTTTGTGTGTTTGTGTGTTTT
TTAAGTGCTGTATTAATAATACTTTCTGAAAGAAAAGGACACTTACCCCAAACCTTCAATCTGAAATGTCTTACA

6322/6881
FIGURE 5840B

TTAAGAATATCTTGAATGTTGTGTATATATTTTTAAAAAGCACTTTGCAAAATAGTTTGTACATTTATTTCTAAT
TTATACATGATTTTTGGTGTTAATATATTTAATGATTAATAACAGAATGTTTATTTAATGTGCTGTCCATTTTTTA
TGTAATATTATGGGGAAAGTGATGCCAGCAGTTCCTTTTCATTATTCTATCTTCTGTCATATGAATGTTGAGCAA
AGCTTAGGCCAACATGAATTGTTTGTGAAGTGTGGTTGATGGTGCTTTGTTTTTTTCTGACTACTTCTATGGAAG
GCCAGTGAAGAAGCAAAGGAAGACATGAAAATTGACGCTCATTCTTCTTCCTATTGTTCCCTGACATCCAGCAAA
TTGTGAATTTGAAAAATGATGGCCAGTTTTTCAGAAGTGCTGACAAAATTCATATTGGTATGCAAAAGCTCATCACC
CATTAAAGGTTTGTGTTGAATCAACAGTACTCAGCATATTTAAACAGTACATCAGAACTCATGCCAACAGTCTTT
ATGATGGGATTAAGGTGGACAAGATCTCCTAAGATCTGTGAATGGGATTAAGGTGGACAAGATCTCCTAAGATCT
GAAAAGAAACCTTAATACGCTCATATGGTTGGAGTGTTAAGTGAACCTCTGATTTTGTGAGGGTTTTCTACGTG
TAGGCGTGAATAGGGGGCACCCTTCAAACTGTACAAAGAAGACGACTGTTTTCCATTTCCATTTAAACATTTT
TAGCCACTTCATTTCTATTTATTGAACAGGTCAAATTTGTCTTGTTATTTGTGAGTACAGTACATTTAAAAACA
TCCTTATCGGTTATTTTTTTTTTTCAGTCGGAGTTTGACGTATAAATTGTTTATGCTTTTGGTGTAAATCTCTTAATA
AACTGGTTCTTCAAAAATC

6323/6881
FIGURE 5841

MSVAFASARPRGKGEVTQQTIQKMLDENHHLIQCILEYQSKGKTAECTQYQQILHRNLVYLATIADSNQNMQSLL
PAPPTQNMNLGPGALTQSGSSQGLHSQGSLSDAISTGLPPSSLLQGQIGNGPSHVSMQQTAPNTLPTTSMISGP
GYSHAGPASQGVPMQGGTIGNYVSRTNINMQSNPVSMQQAATSHYSSAQGGSQHYQGQSSIAMMGQGSQGS
MMGQRPMAFYRPSQQGSSQQYLQEEYYGEQYSHSQGAAEPMGQQYYPDGHGDYAYQQSSYTEQSYDRSFEESTQ
HYYEGGNSQYSQQQAGYQQGAAQQQTYSQQQYPSQQSYPGQQQGYGSAQGAPSQYPGYQQGQGGQYGSYRAPQTA
PSAQQRFPYGYEQGQYGNYQQ

6324/6881
FIGURE 5842

GGGGCC**ATG**GCACCTGCAAGGTGTTTCTCAGCAAGATTGAGGACCGTGTTTCAGGGCGTGGGGCATTGGGCTTTG
TCCACATGGGCTGGCCTGAAGCCCAGCCGGCTACTGCCACAGCGGGCTTCTCCCAGGCTGCTCTCGGTTCGGCCGT
GCGGACCTCGCCAAGCATCAGGAACCTCCCGGGGAAGAAGCTGCTCTCTGAGAAAAAGCTGAAAAGGTACTTTGTG
GACTATCGGAGAGTGCTTGTCTGTGGAGGAAACGGAGGCGCTGGGGCAAGCTGCTTCCACAGTGAGCCCCGCAAG
GAGTTTGGAGGGCCCTGATGGAGGGGACGGAGGCAACGGTGGACACGTCATTCTGAGAGTTGACCAGCAAGTCAAG
TCCCTGTCTCGTTCGGTCTGTCTCGCGGTACCAGGGTTTCAGTGGAGAAGATGGAGGGAGTAAAACTGCTTCGGGCGC
AGTGGCGCCGTCTCTACATCCGGGTCCCGTGGGCACGCTGGTGAAGGAGGGAGGCAGAGTTGTGGCCGACCTG
TCTTGGCTGGGAGATGAGTACATTGCCGCGCTGGGCGGGGCAGGAGGGAAAGGCAACCGCTTCTTCTGGCCAAC
AACAACCGTGCCCCGTGTGACCTGTACCCCTGGACAGCCAGGACAGCAGCGAGTTCTCCACCTGGAGCTCAAGACG
GTGGCCCACGCCGAATGGTGGGATTCCCCAACGCCGGGAAGTCTCTACTGCTCCGGGCCATTTCAAACGCCAGA
CCCCCGTGGCTTCTTACCCGTTTACCACCCTGAAGCCCCACGTCGGGATCGTCCACTACGAAGGCCACCTACAA
ATAGCAGTGGCCGACATCCCCGGCATCATACGAGGCGCCCACCAGAACAGGGGTCTGGGGTCCGCCTTCTCAGG
CACATCGAGCGCTGCCGCTTTCTCTTGTTCGTGGTGGATCTTTCTCAGCCTGAGCCGTGGACTCAAGTTGACGAT
TAAAAATATGAACTGGAGATGTATGAAAAGGGCCTGTCTGCGAGGCCCCACGCAATCGTCGCAAACAAGATTGAC
CTCCCTGAAGCCCCAAGCCAATCTGTCCAGCTCCGGGATCACTTGGGACAGGAGGTCACTGTCTGTCTGGCGTTG
ACCGGCGAGAACCTGGAGCAGCTGCTGTTGCACCTGAAGGTGCTGTATGACGCCTACGCGGAGGCCGAGCTGGGC
CAGGGCCGCCAGCCGCTCAGGTGGT**TAG**CCACGCCAGAGCGGGGTGCGCTCTGGGCCCTCTGTCTGAGCAAACCTGG
GTGTGAATTCGGTGGTTTTGAATGCATAAAGTGCCTTGTGGACACGGGGGAGTTGTGGTGCTTCTGGGTCTCTGG
GCCCCGCTGTCTGGCCTGAGATGCCCTCATGTTGGGAAGCATTCCGTGCCCCCTACCCCGCCTGCCCTCCGTATT
TCTGACCTGTCTCAGCCTGCACCGACTGATGAGCCAGTTGCTCATTTGTGCTGATTAAACCCCCCTAATAAGGGGT
TGGGGTGCCCATAAACGGGGTGGCCCTGCCGCTGACTCAGGTCTCCGCCATGCACGCGTGGACTCTCGGATGAGCT
CAGCAGAAACCGCACAGCCAGAGCCCCAGGTGAGAAGTGCAGACCAGGGTTCTCAGCACAGTGCCCGTCTGTGCTTC
CATGGCTTGCTACGGAGAGAGACCTCTGGATCCACACTGGGGCTGCGTCTGGCCCGTTGTCCAGCAGCCCTGCGG
TACCGCAAGCCAGGCACCAAGTGTCTCGGGGGGCTCACTGCTGCGCAAGGGGTGGGGCCGAGGATGCAAGTCCA
GGCAGAGCGGCGCAGGCAGCTGTGAGCTTTTCTCCATCAGCCGTCTGAGAAGAGCAGTGAGGCCAGCTGCTTCCT
GTCCCTTCAGAACACTTCTCTGTGCTCAGTGGGAGCCAGGAAGCCTCAGGCTTCACGACTGAATGCACCCAATATC
CGACCTGGCTGCGTGTTCTGGCTGGGCTGCCGTGTGCACAGCAAGTTAACTAGAGGGGCTGTGGGCCATGGAAC
TGTCAGCGTTATTCTCAGAAGGCGGCCGTGGCATGGGCAGGGTATAGTGAGGAGTGGAAGGAGACGTGTGCCTGG
TAATATGGGGCGGAATTTCCACTCAGCTCCATTTGCTGGGGATTTAAAGAGAACCCTTGTGCTACGCCAGGCAGT
TACCGAGCCGAAGGGAGATGATGGCCCTTCGCCCTCAGTGGGATGGCAGCTGAGGGGGCCCTGCATTTGACCGT
CGAGACTGCAGCAGCGCCTTTCCTGTCTGTGGTTTAAAGTCTTTGCAGTCAAGTACTGATGCATCCAAGCCAGGCC
CATGCCTGGTGTCTCCCTGACTGCAGAGGAGCCCCAGGGCAAGGACAGCTCAGCTGCTGGCAGCCTGCCTGGCCC
ATAGACATCCCCCAAGTAGTCTCAGGCCTCTGACATGTCCCTGAGGGGGCCCTAAGAAAAGAAAGTGGAGGGGACA
CTCCAGAGGCTGTCTGGGAGGATCATGTGAGCCTGGGAGGTCAAGGCTGCAGTGAGCCGTGATTGCACCACTGC
ACTCCAGCCTGAGTGACAGAGCGAGACCTGTCTCAAAAAACAAACAAACAAACAAACAAACAGAACATTCTG
GGCACGGTGGCTCATGCCTGTAGTCCCAGCACTTTGGGAGGCCGAGGCTGGTGGATCAAGGTCAAGGAGATTGA
GACCATCCTGGCTAACACAGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGCGTGGTGGCGGTC
ACCTGTAGTCCCAGCTACTCGGGAGGCTGAAGCAGGAGAATGGCGTGAACCTGGGAGGCCGAGCTTGCAGTGAGC
CGAGATCACACCACTGCACTCCAGCCTGAGCGACAGAGCAAGACTCCATCTC

6325/6881
FIGURE 5843

MAPARCF SARLRTVFQGVGHWALSTWAGLKPSRLLPQRASPRLLSVGRADLAKHQELPGKKLLSEKKLKRYFVDY
RRVLVCGGNGGAGASCFHSEPRKEFGGPDGGDGGNGGHVILRVDQQVKSLSVLSRYQGFSGEDGGSKNCFGRSG
AVLYIRVPVGTILVKEGGRVVADLSCVGDEYIAALGGAGGKGNRFFLANNNRAPVTCTPGQPGQQRVLHLELKTVA
HAGMVGFPNAGKSSLLRAISNARPAVASYPFTTLKPHVGIVHYEGHLQIAVADIPIGIIRGAHQNRGLGSAFLRHI
ERCRFLLFVVDLSQPEPWTQVDDLKYELEMYEKGLSARPHAIVANKIDLPEAQANLSQLRDHLGQEVIVLSALTG
ENLEQLLLHLKVLYDAYAEAELGQGRQPLRW

6326/6881
FIGURE 5844

GCGAGCCCGGACGGCGCCTCTCGAACGAGTGTGGGCGCGAGGCAGG**ATG**ACGACCTCAGGCGCGCTCTTTCCAAG
CCTGGTGCCAGGCTCTCGGGGCGCCTCCAACAAGTACTTGGTGGAGTTTCGGGCGGGAAAGATGTCCCTGAAGGG
GACCACCGTGACTCCGGATAAGCGGAAAGGGCTGGTGTACATTACGACAGACGGACGACTCGCTTATTCACTTCTG
CTGGAAGGACAGGACGTCCGGGAACGTGGAAGACGACTTGATCATCTTCCCTGACGACTGTGAGTTCAAGCGGGT
GCCGAGTGCCCCAGCGGGAGGGTCTACGTGCTGAAGTTCAAGGCAGGGTCCAAGCGGCTTTTCTTCTGGATGCA
GGAACCCAAGACAGACCAGGATGAGGAGCATTGCCGGAAGTCAACGAGTATCTGAACAACCCCCCGATGCCTGG
GGCACTGGGGGCCAGCGGAACGAGCGGCCACGAACCTCTCTGCGCTAGGCGGTGAGGGTGGCCTGCAGAGCCTGCT
GGGAAACATGAGCCACAGCCAGCTCATGCAGCTCATCGACCAGCCGGCCTCGGAGGACTGGGTGGGCTGGGGGC
CCTGACTGGACCTGGCCTGGCCAGCTTACTGGGGAGCAGTGGGCCTCCAGGGAGCAGCTCCTCCTCCAGCTCCCG
GAGCCAGTCGGCAGCGGTACCCCCGTCATCCACCACCTCTTCCACCCGTGCCACCCAGCCCCCTTCTGCTCCAGC
AGCTGCCTCAGCAACTAGCCCGAGCCCCGCGCCAGTTCCGGGAATGGAGCCAGCACAGCAGCCAGCCCGACCCA
GCCCATCCAGCTGAGCGACCTCCAGAGCATCCTGGCCACGATGAACGTACCAGCCGGGCCAGCAGGCGGCCAGCA
AGTGGACCTGGCCAGTGTGCTGACGCCGAGATAATGGCTCCCATCCTCGCCAACGCGGATGTCCAGGAGCGCCT
GCTTCCCTACTTGCCATCTGGGGAGTCGCTGCCGAGACCGCGGATGAGATCCAGAATACCCTGACCTCGCCCCA
GTTCCAGCAGGCCCTGGGCATGTTGAGCGCAGCCTTGGCCTCGGGGCAGCTGGGCCCCCTCATGTGCCAGTTCGG
TCTGCCTGCAGAGGCTGTGGAGGCCGCCAACAAGGGCGATGTGGAAGCGTTTGCCAAAGCCATGCAGAACACGC
CAAGCCCGAGCAGAAAGAGGGCGACACGAAGGACAAGAAGGACGAAGAGGAGGACATGAGCCTGGACT**GAG**CCAC
GCGCCGTCTCCGAGGAAC**TGGG**CGCTTGCA**GTGCGTTGCACACCCTCACCTCCCACCCACTGATTATTAATAAA**
GTCTTTTCTTTTACCTGCAAAAAA

6327/6881
FIGURE 5845

MTTSGALFPSLVPGSRGASNKYLVEFRAGKMSLKGTTPDKRKGLVYIQQTDDSLIHFCWKDRTSGNVEDDLII
FPDDCEFKRVPQCPSGRVYVLKFKAGSKRLFFWMQEPKTDQDEEHCRKVNEYLNNPMPGALGASGTSGHEL
SALGGEGGLQSLLGNMSHSQMLQIGPAGLGGLGGLGALTGPGLASLLGSSGPPGSSSSSSSSRSQSAAVTPSSTTSST
RATPAPSAPAAAASATSPSPAPSSGNGASTAASPTQPIQLSDLQSILATMNVFAGPAGGQQVDLASVLTPEIMAPI
LANADVQERLLPYLP
SGESLPQT
ADEIQNTLT
SPQFQ
QALGMFSA
ALASGQL
GPLMCQF
GLPAE
AVEAANK
GDVE
AF
AKAMQ
NNAKPE
QKEGDT
KDKKDE
EEDMSLD

6328/6881
FIGURE 5846A

ATGGCGAAGCGGCTCTGCGCGGGGAGCGCACTGTGTGTTTCGCGGCCCGGGGCCCCGCGCCGCTGCTGCTGGTC
GGGCTGGCGCTGCTGGGCGCGGCGCGGGCGGGAGGAGGCGGGCGGGCTTCAGCCTGCACCCGCCCTACTTC
AACCTGGCCGAGGGCGCCCGCATCGCCGCTCCGCGACCTGCGGAGAGGAGGCCCCGCGCGCGGCTCCCCGCGC
CCCACCGAGGACCTTTACTGCAAGCTGGTAGGGGGCCCCGTGGCCGGCGGCGACCCCAACCAGACCATCCGGGGC
CAGTACTGTGACATCTGCACGGCTGCCAACAGCAACAAGGCACACCCCGCGAGCAATGCCATCGATGGCACGGAG
CGCTGGTGGCAGAGTCCACCGCTGTCCCGCGGCGCTGGAGTACAACGAGGTCAACGTACCCCTGGACCTGGGCCAG
GTCTTCCACGTGGCCTACGTCTCATCAAGTTTGCCAACTCACCCCGGCGGACCTCTGGGTGCTGGAGCGGTCC
ATGGACTTCGGCCGCACCTACCAGCCCTGGCAGTTCTTTGCTCCTTCCAAGAGGGACTGTCTGGAGCGGTTCGGG
CCACAGACGCTGGAGCGCATCACACGGGACGACGCGGCCATCTGCACCACCGAGTACTCACGCATCGTGCCCTG
GAGAACGGAGAGATCGTGGTGTCCCTGGTGAACGGACGTCCGGGCGCCATGAATTTCTCTACTCGCCGCTGCTA
CGTGAGTTTACCAAGGCCACCAACGTCCGCTGCGCTTCCTGCGTACCAACACGCTGCTGGGCCATCTCATGGGG
AAGGCGCTGCGGGACCCACGGTCACCCGCGGTATTATTACAGCATCAAGGATATCAGCATCGGAGGCGCTGT
GTCTGCCACGGCCACGCGGATGCCTGCGATGCCAAAGACCCACGGACCCGTTTCAAGGCTGCAGTGCACCTGCCAG
CACAACACCTGCGGGGGCACCTGCGACCGCTGCTGCCCCGGCTTCAATCAGCAGCCGTGGAAGCCTGCGACTGCC
AACAGTGCCAACGAGTGCCAGTCTGTAACTGCTACGGCCATGCCACCGACTGTTACTACGACCCCTGAGGTGGAC
CGGCGCCGCGCCAGCCAGAGCCTGGATGGCACCTATCAGGGTGGGGGTGTCTGTATCGACTGCCAGCACCACACC
ACCGGCGTCAACTGTGAGCGCTGCTGCCCCGGCTTCTACCGCTCTCCCAACCACCTCTCGACTCGCCCCACGTC
TGCCGCGCTGCAACTGCGAGTCCGACTTCACGGATGGCACCTGCGAGGACCTGACGGGTGATGCTACTGCCGG
CCCAACTTCTCTGGGGAGCGGTGTGACGTGTGTGCCGAGGGCTTACGGGCTTCCCAAGCTGCTACCCGACGCCC
TCGTCTTCCAATGACACCAGGGAGCAGGTGCTGCCAGCCGGCCAGATTGTGAATTGTGACTGCAGCGCGGCAGGG
ACCCAGGGCAACGCCTGCCGGAAGGACCCAAGGTGGGACGCTGTCTGTGCAAACCCAACTTCCAAGGCACCCAT
TGTGAGCTCTGCGCGCCAGGGTTCTACGGCCCCGGCTGCCAGCCCTGCCAGTGTTCAGCCCTGGAGTGGCCGAT
GACCGCTGTGACCCCTGACACAGGCCAGTGCAGGTGCCGAGTGGGCTTTCAGGGGGCCACATGTGATCGCTGTGCC
CCCGGCTACTTTCACTTCCCTCTCTGCCAGTTGTGTGGCTGCAGCCCTGCAGGAACCTTGCCCGAGGGCTGCGAT
GAGGCCGGCCGCTGCCTATGCCAGCCTGAGTTTGTGTGGCTGCAGCCCTGCAGGAACCTTGCCCGAGGGCTGCGAT
TTCCCCAACTGCCAAGCATGCACCTGCGACCCCTCGGGGAGCCCTGGACCAGCTCTGTGGGGCGGGAGGTTTGTGC
CGCTGCCGCCCCGGCTACACAGGCACTGCCTGCCAGGAATGCAGCCCCGGCTTTCACGGCTTCCCCAGCTGTGTC
CCCTGCCACTGCTCTGCTGAAGGCTCCCTGCACGCAGCCTGTGACCCCCGGAGTGGGCAGTGCAGCTGCCGGCCC
CGTGTGACGGGGCTGCGGTGTGACACATGTGTGCCCGGTGCCTACAACCTTCCCTACTGCGAAGCTGGCTCTTGC
CACCTGCGCGGTCTGGCCCCAGTGGATCCTGCCCTTCCCTGAGGCACAGGTTCCCTGTATGTGCCGGGCTCACGTG
GAGGGGCCGAGCTGTGACCGCTGCAAACCTGGGTTCTGGGGACTGAGCCCCAGCAACCCCCGAGGGCTGTACCCGC
TGCAGCTGCGACCTCAGGGGCACACTGGGTGGAGTTGCTGAGTGCCAGCCGGGCACCGGCCAGTGTCTTGTCAAG
CCCCACGTGTGCGGCCAGGCCTGCGCGTCTGCAAGGATGGCTTCTTTGACTGGATCAGGCTGACTATTTTGGC
TGCCCGAGCTGCCGGTGTGACATTGGCGGTGCACTGGGCCAGAGCTGTGAACCGAGGACGGGCGTCTGCCGGTGC
CGCCCCAACACCCAGGGCCCCACCTGCAGCGAGCCTGCGAGGGACCACTACCTCCCGGACCTGCACCACCTGCGC
CTGGAGCTGGAGGAGGCTGCCACACCTGAGGGTCACGCCGTGCGCTTTGGCTTCAACCCCCCTCGAGTTCGAGAAC
TTCAGCTGGAGGGGCTACGCGCAGATGGCACCTGTCCAGCCCAGGATCGTGGCCAGGCTGAACCTGACCTCCCCCT
GACCTTTTCTGGCTCGTCTTCCGATACGTCAACCGGGGGGCCATGAGTGTGAGCGGGCGGGTCTCTGTGCGAGAG
GAGGGCAGGTGCGCCACCTGCGCCAACCTGCACAGCACAGAGTCAGCCCGTGGCCTTCCACCCAGCACGGAGCCT
GCCTTCATCACCGTGCCCCAGAGGGGCTTCGGAGAGCCCTTTGTGCTGAACCTGGCACCTGGGCCCTGCGTGTG
GAGGCCGAAGGGGTGCTCCTGGACTACGTGGTTCTGTGCTAGCGCATACTACGAGGCGGCGCTCCTGCAGCTG
CGGGTGAAGTGGCCCTGCACATACCGTCCCTCTGCCAGAGTCTGGCGACAACCTGCCTCCTCTACACACACCTC
CCCCTGGATGGCTTCCCTCGGCCGCGGGCTGGAGGCCCTGTGTGCCAGGACAACAGCCTGCCCCGGCCCTGC
CCCACGGAGCAGCTCAGCCCGTGCACCCGCCACTGATCACCTGCACGGGCAGTGTGTGGACGTCCAGCTTCAA
GTGGCAGTGCCACAGCCAGGCCGCTATGCCCTAGTGGTGGAGTACGCCAATGAGGATGCCCGCCAGGAGGTGGGC
GTGGCCGTGCAACCCACAGCGGGCCCCCAGCAGGGGCTGCTCTCCCTGCACCCCTGCCTGTACAGCACCCCTG
TGCCGGGGCACTGCCCGGGAATACCCAGGACCACCTGGCTGTCTTCCACCTGGACTCGGAGGCCAGCGTGAGGCTC
ACAGCCGAACAGGCACGCTTCTTCTGTCACGGGGTCACTCTGGTGCCATTGAGGAGTTACGCCCCGAGTTCGTG

6329/6881
FIGURE 5846B

GAGCCCCGGGTCAGCTGCATCAGCAGCCACGGCGCCTTTGGCCCCAACAGTGCCGCCTGTCTGCCCTCGCGCTTC
CCAAAGCCGCCCCAGCCCATCATCCTCAGGGACTGCCAGGTGATCCCGCTGCCGCCCGGCTCCCGCTGACCCAC
GCGCAGGATCTCACTCCAGCCATGTCCCCAGCTGGACCCCGACCTCGGCCCCCACCCTGTGGACCCCTGATGCA
GAGCCACCCCTGCTGCGTGAGCCCCAGGCCACCGTGGTCTTACCACCCATGTGCCACGCTGGGCCGCTATGCC
TTCTGTGTCACGGCTACCAGCCAGCCACCCACCTTCCCCGTGGAAGTCTCATCAACGCCGGCCGCGTGTGG
CAGGGCCACGCCAACGCCAGCTTCTGTCCACATGGCTACGGCTGCCGACCCTGGTGGTGTGTGAGGGCCAGGCC
CTGCTGGACGTGACCCACAGCGAGCTCACTGTGACCGTGGTGTGCCCAAGGGCCGGTGGCTCTGGCTGGATTAT
GTACTCGTGGTCCCTGAGAACGTCTACAGCTTTGGCTACCTCCGGGAGGAGCCCCCTGGATAAATCCTATGACTTC
ATCAGCCACTGCGCAGCCCAGGGCTACCACATCAGCCCCAGCAGCTCATCCCTGTTCTGCCGAAACGCTGCTGCT
TCCCTCTCCCTCTTCTATAACAACGGAGCCCGTCCATGTGGCTGCCACGAAGTAGGTGCTACAGGCCCCACGTGT
GAGCCCTTCGGGGGCCAGTGTCCCTGCCATGCCATGTATTGGCCGTGACTGCTCCCGCTGTGCCACCGGATAC
TGGGGCTTCCCCAACTGCAGGGCCCTGTGACTGCGGTGCCGCTCTGTGACGAGCTCACGGGCCAGTGCATCTGC
CCGCCACGCACCATCCCCCGGACTGCCTGCTGTGCCAGCCCCAGACCTTTGGCTGCCACCCCTGGTCCGGCTGT
GAGGAGTGTAAGTGTCTCAGGGCCCCGGCATCCAGGAGCTCACAGACCCTACCTGTGACACAGACAGCGGCCAGTGC
AAGTGCAGACCCAAACGTGACTGGGCGCCGCTGTGATACTGCTCTCCGGGCTTCCATGGCTACCCCGCTGCCGC
CCCTGTGACTGTACAGAGCGGGCACTGCGCTGGCGTGTGTGACCCCTCACAGGGCAGTGCTACTGTAAGGAG
AACGTGCAGGGCCCCAAATGTGACCAGTGCAGCCTTGGGACCTTCTCACTGGATGCTGCCAACCCCAAAGGTTGC
ACCCGCTGCTTCTGCTTTGGGGCCACGGAGCGCTGCCGGAGCTCGTCTACACCCGCCAGGAGTTCGTGGATATG
GAGGGATGGGTGCTGCTGAGCACTGACCGGCAGGTGGTGGCCACGAGCGGCAGCCAGGGACGGAGATGCTCCGT
GCAGACCTGCGGCACGTGCCTGAGGCTGTGCCGAGGCTTTCCCCGAGCTGTACTGGCAGGCCCCACCCCTCCTAC
CTGGGGGACCGGGTGTCTATCCTACGGTGGGACCCTCCGTTATGAACTGCACTCAGAGACCCAGCGGGGAGATGTC
TTTGTCCCCATGGAGAGCAGGCCGGATGTGGTGTGTCAGGGCAACCAGATGAGCATCACATTCTGGAGCCGGCA
TACCCACGCCTGGCCACGTTACCGTGGGCAGCTGCAGCTGGTGGAGGGGAACTTCCGGCATAACGGAGACGCGC
AACACTGTGTCCCGCGAGGAGCTCATGATGGTGTGTCAGCCTGGAGCAGCTGCAGATCCGTGCCCTCTTCTCA
CAGATCTCCTCGGCTGTCTTCTGCGCAGGGTGGCACTGGAGGTGGCCAGCCAGCAGGCCAGGGGGCCCTGGCC
AGCAATGTGGAGCTGTGCCTGTGCCCCGCCAGCTACCGGGGGGACTCATGCCAGGAATGTGCCCCCGGCTTCTAT
CGGGACGTCAAAGGTCTCTTCTGGGCCGATGTGTCCCTTGTGAGTGCATGGACACTCAGACCGCTGCCTCCCT
GGCTCTGGCGTCTGTGTGACTGCCAGCACAACACCGAAGGGGCCACTGTGAGCGCTGCCAGGCTGGCTTCGTG
AGCAGCAGGGACGACCCAGCGCCCCCTGTGTGAGCTGCCCTGCCCTCTCAGTGCCTTCCAACAACCTTCGCC
GAGGGCTGTGTCTGCGAGGCGGCCGACCCAGTGCCTCTGCAAACCTGGTTATGCAGGTGCCTCCTGCGAGCGG
TGTGCGCCCGGATTCTTTGGGAACCCACTGGTGTGCGGAGCTCCTGCCAGCCATGCGACTGCAGCGGCAACGGT
GACCCCAACTTGCTCTTCAGCGACTGCGACCCCTGACGGGCGCTGCCGTGGCTGCCTGCGCCACACCACTGGG
CCCCGCTGCGAGATCTGTGCCCCGGCTTCTACGGCAACGCCCTGTGCCCCGCAACTGCACCCGGTGCAGTGT
ACCCCATGTGGGACAGAGGCTGCGACCCCCACAGCGGGCACTGCCTGTGCAAGGCGGGCGTGAAGTGGGCGCGC
TGTGACCGCTGCCAGGAGGGACATTTTGGTTTCGATGGCTGCGGGGGCTGCCGCCCGTGTGCTTGTGGACCGGCC
GCCGAGGGCTCCGAGTGCCACCCCCAGAGCGGACAGTGCCACTGCCGACCAGGGACCATGGGACCCAGTGCCTGC
GAGTGTGCCCTGGCTACTGGGGCTCCCTGAGCAGGGCTGCAGGCGCTGCCAGTGCCTTGGGGCCGCTGTGAC
CCTCACACGGGCGCTGCAACTGCCCCCGGGGCTCAGCGGGGAGCGCTGCGACACCTGCAGCCAGCAGCATCAG
GTGCCTGTTCCAGGCGGGCCTGTGGGCCACAGCATCCACTGTGAAGGTTGTGTGACCACTGTGTGGTCTCTGCTCC
TGGATGACCTGGAACGGGCCGGCGCCCTCCTCCCCGCCATTACAGAGCAACTGCGTGGCATCAATGCCAGTCCA
TGGCCTGGGCCCCGTCTGCACAGGCTGAACGCCTCCATCGCTGACCTGCAGAGCCAGCTCCGGAGCCCCCTGGGCC
CCCCCATGAGACGGCACAGCAGCTGGAGGTGTGGAGCAGCAGAGCACAAGCCTCGGGCAGGACGCACGGCGGC
TAGGGCGGCCAGGCCGTGGGGACCCGAGACCAGGCGAGCCAATTGCTGGCCGGCACCGAGGCCACACTGGGCCATG
CGAAGACGCTGTTGGCGGCCATCCGGGCTGTGGACCGCACCCCTGAGCGAGCTCATGTCCAGACGGGCCACCTGG
GGCTGGCCAATGCCTCGGCTCCATCAGGTGAGCAGCTGCTCCGGACACTGGCCGAGGTGGAGCGGCTGCTCTGGG
AGATGCGGGCCCGGACCTGGGGCCCCGAGGCAGCAGCTGAGGCTGAGTTGGCTGCAGCACAGAGATTGCTGG
CCCGGGTGCAGGAGCAGCTGAGCAGCTTCTGGGAGGAGAACCAGGCACTGGCCACACAAACCCGCGACCGGCTGG
CCCAGCACGAGGCGGCCTCATGGACCTGCGAGAGGCTTTGAACCGGGCAGTGGACGCCACACGGGAGGCCAGG

6330/6881
FIGURE 5846C

AGCTCAACAGCCGCAACCAGGAGCGCCTGGAGGAAGCCCTGCAAAGGAAGCAGGAGCTGTCCCGGGACAATGCCA
CCCTGCAGGCCACTCTGCATGCGGCTAGGGACACCCTGGCCAGCGTCTTCAGATTGCTGCACAGCCTGGACCAGG
CTAAGGAGGAGCTGGAGCGCCTCGCCGCCAGCCTGGATGGGGCTCGGACCCCACTGCTGCAGAGGATGCAGACCT
TCTCCCCGGCGGGCAGCAAGCTGCGTCTAGTGGAGGCCGCCGAGGCCCACGCACAGCAGCTGGGCCAGCTGGCAC
TCAATCTGTCCAGCATCATCTGGACGTCAACCAGGACCGCCTCACCCAGAGGGCCATCGAGGCCTCCAACGCCT
ACAGCCGCATCCTGCAGGCCGTGCAGGCTGCCGAGGATGCTGCTGGCCAGGCCCTGCAGCAGGCGGACCACACGT
GGGCGACGGTGGTGCAGGAGGGCCTGGTGGACCGAGCCAGCAGCTCCTGGCCAACAGCACTGCACTAGAAGAGG
CCATGCTCCAGGAACAGCAGAGGCTGGGCCTTGTGTGGGCTGCCCTCCAGGGTGCCAGGACCCAGCTCCGAGATG
TCCGGGCCAAGAAGGACCAGCTGGAGGCGCACATCCAGGCGGCGCAGGCCATGCTTGCCATGGACACAGACGAGA
CAAGCAAGAAGATCGCACATGCCAAGGCTGTGGCTGCTGAAGCCCAGGACACCGCCACCCGTGTGCAGTCCCAGC
TGCAGGCCATGCAGGAGAATGTGGAGCGGTGGCAGGGCCAGTACAGGGCCTGCGGGGCCAGGACCTGGGCCAGG
CAGTGCTTGACGCAGGCCACTCAGTGTCCACCCTGGAGAAGACGCTGCCCCAGCTGCTGGCCAAGCTGAGCATCC
TGGAGAACCCTGGGGTGACAACGCCAGCCTGGCCCTGTCCGCCAGCATTGGCCGCGTGCGAGAGCTCATTGCCCC
AGGCCCCGGGGGGCTGCCAGTAAGGTCAAGGTGCCCATGAAGTTCAACGGGCGCTCAGGGGTGCAGCTGCGCACCC
CACGGGATCTTGCCGACCTTGCTGCCTACACTGCCCTCAAGTTCTACCTGCAGGGCCCAGAGCCTGAGCCTGGGC
AGGGTACCGAGGATCGCTTTGTGATGTACATGGGCAGCCGCCAGGCCACTGGGGACTACATGGGTGTGTCTCTGC
GTGACAAGAAGGTGCACTGGGTGTATCAGCTGGGTGAGGCGGGCCCTGCAGTCTTAAGCATCGATGAGGACATTG
GGGAGCAGTTTCGAGCTGTTCAGCCTGGACAGGACTCTCCAGTTTGGCCACATGTCCGTTCAGTGGAGAGACAGA
TGATCCAGGAAACCAAGGGTGACACGGTGGCCCCCTGGGGCAGAGGGGCTGCTCAACCTGCGGCCAGACGACTTCG
TCTTCTACGTCGGGGGGTACCCCACTACCTTCACGCCCCCTCCCCTGCTTCGCTTCCCCGGCTACCGGGGGCTGCA
TCGAGATGGACACGCTGAATGAGGAGGTGGTCAGCCTCTACAACCTTCGAGAGGACCTTCCAGCTGGACACGGCTG
TGGACAGGCCTTGTGCCCCGCTCCAAGTCGACCGGGGACCCGTGGCTCACGGACGGCTCCTACCTGGACGGCACCG
GCTTCGCCCCGATCAGCTTCGACAGTCAGATCAGCACCACCAAGCGCTTCGAGCAGGAGCTGCGGCTCGTGTCTC
ACAGCGGGGTGCTCTTCTTCTTCTGAAGCAGCAGAGCCAGTTCTGTGCTTGGCCGTGCAAGAAGGCAGCCTCGTGC
TGTTGTATGACTTTGGGGCTGGCCTGAAAAAGGCCGTCCCCTGCAGCCCCCACCAGCCCCCTGACCTCGGCCAGCA
AGGCGATCCAGGTGTTTCTGCTGGGGGGCAGCCGCAAGCGTGTGCTGGTGCCTGTGGAGCGGGCCACGGTGTACA
GCGTGGAGCAGGACAATGATCTGGAGCTGGCCGACGCCTACTACCTGGGGGGCGTGCCGCCCCGACCAGCTGCCCC
CGAGCCTGCGACGGCTCTTCCCCACCGGAGGCTCAGTCCGTGGCTGCGTCAAAGGCATCAAGGCCCTGGGCAAGT
ATGTGGACCTCAAGCGGCTGAACACGACAGGCGTGAGCGCCGGCTGCACCGCCGACCTGCTGGTGGGGCGCGCCA
TGACTTTCCATGGCCACGGCTTCTTCGCTGGCGCTCTCGAACGTGGCACCGCTCACTGGCAACGTCTACTCCG
GCTTCGGCTTCCACAGCGCCCAGGACAGTGCCCTGCTCTACTACCGGGCGTCCCCGGATGGGCTATGCCAGGTGT
CCCTGCAGCAGGGCCGTGTGAGCCTACAGCTCCTGAGGACTGAAGTGAAACTCAAGCGGGCTTCGCCGATGGTG
CCCCCATTACGTCGCTTCTACAGCAATGCCACGGGAGTCTGGCTGTATGTGATGACCAGCTCCAGCAGATGA
AGCCCCACCGGGGACCACCCCCGAGCTCCAGCCGCAGCCTGAGGGGCCCCGAGGCTCCTCCTGGGAGGCCTGC
CTGAGTCTGGCACCATTTCACAACTTCAGTGGCTGCATCAGCAACGTCTTCGTGCAGCGGCTCCTGGGCCACAGC
GCGTATTTGATCTGCAGCAGAACCTGGGCAGCGTCAATGTGAGCACGGGCTGTGCACCCGCCCTGCAAGCCCAGA
CCCCGGGCCTGGGGCCTAGAGGACTGCAGGCCTCCCGCCGCAGCCGTACAGCCGCCCGGCATCTGCCTGCATGC
TGCCCCCACACCTCAGGACCACCCGAGACTCCTACCAGTTTGGGGGTTCCCTGTCCAGTCACTGGAGTTTGTGG
GCATCCTGGCCCCGACATAGGAAGTGGCCAGTCTCTCCATGCAGTCTCTCCGCGAAGCTCCCGAGGCCTCCTCC
TCTTCACTGCCCCGTCTGAGGCCCCGGCAGCCCCCTCCCTGGCGCTCTTCTGAGCAATGGCCACTTCGTTGCACAGA
TGGAAGGCCTCGGGACTCGGCTCCGCGCCAGAGCCGCCAGCGCTCCCGGCTGGCCGCTGGCACAAGGTCTCCG
TGCGCTGGGAGAAGAACCGGATCCTGCTGGTGACGGACGGGGCCCGGGCTGGAGCCAGGAGGGGCCGACCGGC
AGCACCAGGGGGCAGAGCACCCCCAGCCCCACACCCTCTTTGTGGGCGGCCTCCCGCCAGCAGCCACAGCTCCA
AACTTCCGGTGACCGTCGGGTTACAGCGCTGTGTGAAGAGACTGAGGCTGCACGGGAGGCCCCCTGGGGGCCCCCA
CACGGATGGCAGGGGTACACCCCTGCATCTTGGGCCCCCTGGAGGCGGGCCTGTTCTTCCAGGCAGCGGGGGAG
TTATCACTTTAGACCTCCCAGGAGCTACACTGCCTGATGTGGGCTGGAAGTGGAGGTGCGGCCCCCTGGCAGTCA
CCGGAAGTATCTTCACTTGGGCCAGGCCCCGACGCCCCCTACTTGAGTTGCAGGTGACCGAGAAGCAAGTCC
TGCTGCGGGCGGATGACGGAGCAGGGGAGTTCTCCACGTCACTGACCCGCCCTCAGTGTGTGTGATGGCCAGT

6331/6881
FIGURE 5846D

GGCACCGGCTAGCGGTGATGAAAAGCGGGAATGTGCTCCGGCTGGAGGTGGACGCGCAGAGCAACCACACCGTGG
GCCCCCTTGCTGGCGGCTGCAGCTGGTGCCCCAGCCCCCTCTGTACCTCGGGGGCCTGCCTGAGCCCATGGCCGTGC
AGCCCTGGCCCCCGCCTACTGCGGCTGCATGAGGAGGCTGGCGGTGAACCGGTCCCCGTCGCCATGACTCGCT
CTGTGGAGGTCCACGGGGCAGTGGGGGCCAGTGGCTGCCAGCCGCCTAGGACACAGCCAACCCGGCCCCCTGGT
CAGGCCCCCTGCAGCTGCCTCACACCGCCCCCTTGCTGCTCGCCTCATAGGTGTCTATTTGGACTCTAAGCTCTACGG
GTGACAGATCTTGTTTCTGAAGATGGTTTAAGTTATAGCTTCTTAAACGAAAGAATAAAATACTGCAAAATGTTT
TTATATTTGGCCCTTCCACCCATTTTAAATTGTGAGAGATTGTACCAATCATCACTGGTTCCTCCTTAAAAAT
TAAAAAGTAACTTCTGTGT

6332/6881
FIGURE 5847

CTTCTCTCTCGCGCGCGGTGTGGTGGCAGCAGGCGCAGCCCAGCCTCGAAATGCAGAACGACGCCGGCGAGTTC
GTGGACCTGTACGTGCCGCGGAAATGCTCCGCTAGCAATCGCATCATCGGTGCCAAGGACCACGCATCCATCCAG
ATGAACGTGGCCGAGGTTGACAAGGTCACAGGCAGGTTTAATGGCCAGTTTAAACTTATGCTATCTGCGGGGCC
ATTCGTAGGATGGGTGAGTCAGATGATTCCATTCTCCGATTGGCCAAGGCCGATGGCATCGTCTCAAAGAACTTT
TGACTGGAGAGAATCACAGATGTGGAATATTTGTCATAATAAATAATGAAAACCT

6333/6881
FIGURE 5848

MQNDAGEFVDLYVPRKCSASNRIIGAKDHASIQMNVAEVDKVTGRFNGQFKTYAICGAIRRMGESDDSilRLAKA
DGIVSKNF

6334/6881
FIGURE 5849

AGTGCGCCTGCGCGGAGCTCGTGCCGCGCCTGCTCCCGCCGGGGGCTCCTTGCTCGGCCGGGGCCGCGGCCATGG
GAGAGGCCGAGGTGGGCGGCGGGGGCGCCGCAGGCGACAAGGGCCCGGGGGAGGCGGCCACCAGCCCGCGGAGG
AGACAGTGGTGTGGAGCCCCGAGGTGGAGGTGTGCCTCTTCCACGCCATGCTGGGCCACAAGCCCGTCGGTGTGA
ACCGACACTTCCACATGATTTGTATTTCGGGACAAGTTCAGCCAGAACATCGGGCGGCAGGTCCCATCCAAGGTCA
TCTGGGACCATCTGAGCACCATGTACGACATGCAGGCGCTGCATGAGTCTGAGATTCTTCCATTCCCGAATCCAG
AGAGGAACTTCGTCTTCCAGAAGAGATCATTTCAGGAGGTCCGAGAAGGAAAAGTGATGATAGAAGAGGAGATGA
AAGAGGAGATGAAGGAAGACGTGGACCCCCACAATGGGGCTGACGATGTTTTTTCATCTTCAGGGAGTTTGGGGA
AAGCATCAGAAAAATCCAGCAAAGACAAAGAGAAGAACTCCTCAGACTTGGGGTGCAAAGAAGGCGCAGACAAGC
GGAAGCGCAGCCGGGTACCGACAAAGTCCTGACCGCAAACAGCAACCCTTCCAGTCCCAGTGCTGCCAAGCGGC
GCCGCACGTAGACCCTCAGCCCTGGTGGCGGCAGAGAAGCGGGCGAGGCACTGTGGTTCGCTGAGGGGGTTGGCTG
GGTCTGAGTGCCACCCCCCAGGCCACAGTGATACCATCCCAGTGCCATGAGCCCACACTGCCCGCCCTCAGGCTC
TCAGGTGAACGTGGCCGTCAGCGGGGAAACGTGTGTGTGTGAGTTGGACCATGTGGGACCCCGATGGACCTGAAAGA
CCAGGATCGGTCCAGCTCAGATATTGAGGGCTCTGAAGCCTAGTTCTGTCTTCTCTGGAGCAGCTGTGGCTTCCC
CGTGGCTGCTTGGTGACATGGATTAGCGCTACGTGGGCTGCAGCATTGTTGGATCCAGGCTACCTAGAGGGGCATC
GGGCCAGGGAACCTCGGATTAGCAAGCAATAAAAAATATGACCTCACTCTTCTCCTCAAAGGAGCCCTTGGTCTTC
CCTGTGTGACTCAGTTCTTTCCATCTGTTTGTCCCGCTGCAAGCCTCTTTCTGCGCTGACTGTGACATCGGAACG
TGGCCTTCTGTACCCCCCTCCGTGCCACGCACTGAAGGCCACCCCAACCTGGGAACTAAGAACTGGATA
TTTTGCCTCATTCACTTGTACTGTAACAATGTATATAATTTGGTTGGTATTTCACTATTTAATTTTAAGAAGCC
TATTTTACTAGTGTTTTATATGAACAAAGTACTGCAGAAGTTAAACCTGTGTTGTATTTTTCTGAGATGTTTTG
CTTTAAGAGATACTTTTTGCTCAGTTTTTATATGCCAGATACAGAGAATTTGTAGCGGTTATTTTTGTATGATC
TAGTAACTTGCAAACAGACCAAATGGATGAGAGGCGGGACCGTGCAGCTGTCGGCTGATGAGGAGGCGGCCGCC
CCAGTGCTGATGGAGATGCCACTTTCGTGTGACTGCGAACATTAAAGCACAAAAAAATCC

6335/6881
FIGURE 5850

MGEAEVGGGGAAGDKGPGEAATSPAETVVWSPEVEVCLFHAMLGHKPVGVNRHFHMICIRDKFSQNIGRQVPSK
VIWDHLSTMYDMQALHESEILPFPNPERNFVLPEEIIQEVREGKVMIEEEMKEEMKEDVDPHNGADDVFSSSGSL
GKASEKSSKDKEKNSSDLGCKEGADKRKRSRVTDKVLANSNPSSPSAAKRRRT

6336/6881
FIGURE 5851

CCCCGCCGCCGCCGAGCATGGACGACCCCCGACTGCGACTCCACCTGGGAGGAGGACGAGGAGGATGCGGAGGACGC
GGAGGACGAGGACTGCGAGGACGGCGAGGCCGCCGGCGGAGGGACGCGGACGCAGGGGACGAGGACGAGGAGTC
GGAGGAGCCCGGGCGGCGCGGCCAGCTCGTTCCAGTCCAGAATGACAGGGTCCAGAACTGGCGAGCCACGAG
GGACATGTGTAGGTATCGGCACAACCTATCCGGATCTGGTGGAAACGAGACTGCAATGGGGACACGCCAAACCTGAG
TTTCTACAGAAATGAGATCCGCTTCCTGCCCCAACGGCTGTTTCATTGAGGACATTCTTCAGAACTGGACGGACAA
CTATGACCTCCTTGAGGACAATCACTCCTACATCCAGTGGCTGTTTCCTCTGCGAGAACCAGGAGTGAACCTGGCA
TGCCAAGCCCCCTCAGGCTCAGGGAGGTGAGGTGTTTAAAAGCTCCAGGAGATCCAGGAGCGGCTTGTCGGGC
CTACGAGCTCATGCTGGGCTTCTACGGGATCCGGCTGGAGGACCGAGGCACGGGCACGGTGGGCCGAGCACAGAA
CTACCAGAAGCGCTTCAGAACCTGAACTGGCGCAGCCACAACAACCTCCGCATCACACGCATCCTCAAGTCGCT
GGGTGAGCTGGGCCTCGAGCACTTCCAGGCGCCGCTGGTCCGCTTCTTCTGGAGGAGACGCTGGTGCGGCGGGA
GCTGCCGGGGGTGCGGCAGAGTGCCCTGGACTACTTCATGTTTCGCCGTGCGCTGCCGACACCAGCGCCGCCAGCT
GGTGCACTTCGCTGGGAGCACTTCCGGCCCCGCTGCAAGTTCGTCTGGGGGCCCCAAGACAAGCTGCGGAGGTT
CAAGCCCAGCTCTCTGCCCCATCCGCTCGAGGGCTCCAGGAAGGTGGAGGAGGAAGGAAGCCCCGGGGACCCCCGA
CCACGAGGCCAGCACCCAGGGTTCGGACCTGTGGGCCAGAGCATAGCAAGGGTGGGGGCAGGGTGGACGAGGGGCC
CCAGCCACGGAGCGTGAGAGCCCCAGGATGCGGGACCCCTGGAGAGGAGCCAGGGGGATGAGGCAGGGGGCCACGG
GGAAGATAGGCCGGAGCCCTTAAGCCCCAAAGAGAGCAAGAAGAGGAAGCTGGAGCTGAGCCGCGGGAGCAGCC
GCCACAGAGCCAGGCCCTCAGAGTGCCTCAGAGGTGGAGAAGATCGCTCTGAATTTGGAGGGGTGTGCCCTCAG
CCAGGGCAGCCTCAGGACGGGGACCCAGGAAGTGGGCGGTGAGGACCTGGGGAGGCAGTGCAGCCCTGCCGCCA
ACCCCTGGGAGCCAGGGTGGCCGACAAGGTGAGGAAGCGGAGGAAGGTGGATGAGGGTGCTGGGGACAGTGCTGC
GGTGGCCAGTGGTGGTGCCAGACCTTGCCCTTGCCGGGTCCCCTGCCCCATCGGGGCACCCCAAGGCTGGACA
CAGTGAGAACGGGGTTGAGGAGGACACAGAAGGTGGAACGGGGCCCCAAAGAAGGTACCCCTGGGAGCCCATCGGA
GACCCAGGCCCCAGCCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCCG
CCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCCGCCGGCAGGACCTGC
AGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCAGCCGGCAGGACCTACAAGGGATGAGCCAGC
CGAGAGCCCATCGGAGACCCAGGCCCCCGCCGGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGA
GACCCAGGCCCCCGCCGGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCAG
CCCGGCAGGACCTACAAGGGATGAGCCAGCCAAGGCGGGGAGGCAGCAGAGTTGCAGGACGCAGAGGTGGAGTC
TTCTGCCAAGTCTGGGAAGCCTTAAGGAAAGGAGTGCCCGTCGGCGTCTTGGTCTCTCTGTCCCTGCTGCAGGGG
CTGGGGCCTCCGGAGCTGCTGCGGGCTCCCCTCAGGCTCTGCTTCGTGACCCGTGACCCATGACCCACAGTGCTG
GCCTCCTGTGGGGCCACTATAGCAGCCACCAGAAGCCGCGAGGCCCTCAGGGAAGCCCAAGGCCTGCAGAAGCCT
CCTGGCCTGGCTGTGTCTTCCCACCCAGCTCTCCCCTGCGCCCCTGTCTTTGTAAATTGACCCCTCTGGAGTGG
GGGCGGCGGGCAGGGCTGCTTTTCTTAGTCTGATACCAAGCAAGGCCTTTTCTGAATAAATTCAATTTGACTTTG

6337/6881
FIGURE 5852

MDDPDCDSTWEEDEEDAEDAEDCEDGEAAGARDADAGDEDEESEEPRAARPSSFQSRMTGSRNWRATRDMCRY
RHNYPDIVERDCNGDTPNLSFYRNEIRFLPNGCFIEDILQNWTDNYDLLEDNHSYIQWLFPLREPGVNWHAKPLT
LREVEVFKSSQEIQERLVRAYELMLGFYGIRLEDRTGTVGRAQNYQKRFQNLNWRSHNNLRITRILKSLGELGL
EHFQAPLVRFFLEETLVRRELPGVRQSALDYFMFAVRCRHQRRQLVHFAWEHFRPRCKFWGPDQKLRRFKPSSL
PHPLEGSRKVEEEGSPGDPDHEASTQGRTCGPEHSGGGRVDEGPQPRSVEPQDAGPLERSQGDEAGGHGEDRPE
PLSPKESKKRKLELSRREQPPTEPGPQSASEVEKIALNLEGCALSQGLRTGTQEVGGQDPGEAVQPCRQPLGAR
VADKVRKRRKVDEGAGDSAAVASGGAQTLALAGSPAPSGHPKAGHSENGVEEDTEGRTGPKEGTPGSPSETPGPS
PAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSPAGPTRDEPAESPSE
TPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSPAGPTRDEPAKAGEAAELQDAEVSSAKSG
KP

6338/6881
FIGURE 5853

CCGACGCCGAGCTCAGACTCCGCTCAGCCATGGCCGGGCCGCGCGCTGCGCCCCGCTCCTGCTCCTGCTCCTG
CTCGGGGAGCTTCTGGCGGCCCGCGGGGCGCAGAGAGTGGGACTCCCCGGCCCCCCCCGGCCCCCAGGGCCGCC
GGCAAGCCCCGGCCAGGACGGCATTGACGGAGAAGCTGGTCCTCCAGGTCTGCCTGGGCCCCCGGGACCAAGGGG
GCCCCAGGAAAGCCGGGGAAACCAGGAGAGGCTGGGCTGCCGGGACTGCCGGGTGTGGATGGTCTGACTGGACGA
GATGGACCCCCTGGACCCAAGGGTGCCCCCTGGGGAACGGGGAAGTCTGGGACCCCCGGGGCCGCCGGGCTGGGG
GGCAAAGGCCTCCCTGGACCCCCCGAGAGGCAGGAGTGAGCGGCCCCCAGGTGGGATCGGCCTCCGCGGCCCC
CCGGGACCTCCTGGACTCCCCGGCCTCCCTGGTCCCCCAGGACCTCCCGGACCCCCTGGACACCCAGGAGTTCTC
CCTGAAGGCGCTACTGACCTTCAGTGCCCAAGTATCTGCCCGCCAGGTCCCCCAGGGCCCCCTGGAATGCCAGGG
TTCAAAGGACCCACTGGCTACAAAGGCGAGCAGGGGGAAGTCGGCAAGGACGGCGAGAAGGGTGACCTGGCCCC
CCTGGGCCCCCGGCCTCCCGGGCAGCGTGCGGCTGCAGGGCCCCCGGGGATTACGAGGACTGCCAGGGCCACTC
GGGCCCCCTGGGGACCGGGTCCCATTGGGTTCGAGGGCCGCTGGGATCCAGGAGCGCTGGGAAAGCGGGT
GACCGAGGCGAGAGGGGCCAGAAGGGTTCCGCGGCCCAAGGGTGACCTCGGCAGACCTGGTCCCAAGGGAACC
CCCGGAGTGGCCGGGCCAAGCGGAGAGCCGGGCATGCCGGGAAGGACGGCCAGAATGGCGTGCCAGGACTCGAT
GGCCAGAAGGGAGAGGCTGGTTCGCAACGGTGCTCCGGGAGAGAAGGGCCCCAACGGGCTGCCGGGCCTCCCTGGA
CGAGCGGGGTCCAAAGGCGAGAAGGGAGAACGGGGCAGAGCTGGGGAGCTGGGTGAGGCCGGCCCCCTCTGGAGAG
CCAGGCGTCCCTGGAGATGCTGGCATGCCTGGGGAGCGCGGTGAGGCTGGCCACCGGGGCTCAGCGGGGGCCCTC
GGCCACAAGGCCCTCCCGGAGCCCCCTGGTGTCCGAGGCTTCAGGGCCAGAAGGGCAGCATGGGAGACCCGGC
CTTCCAGGCCCCCAGGGCTCCGAGGTGACGTGGGCGACCGGGGTCCGGGAGGTGCCGAGGCCCTAAGGGAGAC
CAGGGTATTGCAGGTTCCGACGGTCTTCTGGGGATAAAGGAGAAGTGGGTCCCAGCGGCCTGGTTCGGACCCAAA
GGAGAGTCTGGCAGTCGAGGGGAGCTGGGCCCCAAAGGCACCCAGGGTCCCAACGGCACCGCGGTGTTTCAGGGT
GTCCCCGGGCCCCCGGTCTCTGGGCCTGCAGGGCGTCCCGGTGTTCTTGGCATCACGGGGAAGCCGGGAGTT
CCGGGGAAGGAGGCCAGCGAGCAGCGCATCAGGGAGCTGTGTGGGGGATGATCAGCGAACAATTGCACAGTTA
GCCGCGCACCTAAGGAAGCCTTTGGCACCCGGGTCCATTGGTTCGGCCCCGTCCAGCTGGCCCCCTGGGCCCCCA
GGACCCCCAGGCTCCATTGGTCACCCTGGCGCTCGAGGACCCCCTGGATACCGCGGTCCCCTGGGGAGCTGGGA
GACCCCGGGCCAGAGGAAACCAGGGTGACAGAGGAGACAAAGGCGCGCAGGAGCAGGGCTGGACGGGCCTGAA
GGAGACCAGGGGCCCCAAGGACCCCAAGGCGTGCCCGGCACCAAGGACGGCCAGGACGGTGCTCCCGGCGAG
CCTGGGCCTCCCGGAGATCCTGGGCTTCAGGTGCCATTGGGGCCCAGGGGACACCGGGGATCTGCGACACCTCA
GCCTGCCAAGGAGCCGTGTTAGGAGGGGTCTGGGGAGAAATCAGGCTCTCGAAGCTCATAAAATTCAACGTGAGGA
AGCAAGTGACAAGGACGCCCCGAAGCACAGTGGACGGTCATGAAGGAGCGGGGGTGTGGCAGGCGGGTGACGTCCA
GGAGAGGGAGCGCCCCCTGGCTGCCCCCTCGGCCGCCGACTGGACGCGCGGGCCTTGCCAGCGAGCACCCCTCATCGG
GCTGTGCGCTGACAGCATACCTCAAAAGGCCCTAGCTAATAAACCTGTAAGCCCAGCATTTGAGAGAAGGTAGGG
TGTGTATATATAAAAGGTTGTGTACAACCTCCACGAGGTGAAAAATATTTCAGTAACCTTGTTTACATAGCATTTGTG
TAAAGACTATGATCTCATCCCAATAAAATGATATATTAAACCTTCAGATTAATGACTGGCTACAGAGTAACAAAA
AATAAAGAATTTAATGTACAGTAAATTCTCTCCCAT

6339/6881
FIGURE 5854

MAGPRACAPLLLLLLLLGELLAAAGAQRVGLPGPPGPPGPPGKPGQDGLDGEAGPPGLPGPPGPKGAPGKPGKPGE
AGLPGLPGVDGLTGRDGPPGPKGAPGERGSLGPPGPPGLGGKGLPGPPGEAGVSGPPGGIGLRGPPGPPGLPGLP
GPPGPPGPPGHPGVLP EGATDLQCPSICPPGPPGPPGMPGFKGPTGYKGEQQGEVVKDGEKGDPPGPPGAPGLPGSV
GLQGPRGLRGLPGPLGPPGDRGPIGFRGPPGIPGAPGKAGDRGERGPEGFRGPKGDLGRPGPKGTPGVAGPSGEP
GMPGKDGQNGVPGLDGQKGEAGRNGAPGEKGPNGLPGLPGRAGSKGEKGERGRAGELGEAGPSGEPGVPGDAGMP
GERGEAGHRGSAGALGPQGPPGAPGVRGFQGGQKGSMDPGLPGPQGLRGDVGDRGPGGAAGPKGDQGIAGSDGLP
GDKGELGPSGLVGPKGESGSRGELGPKGTQGPNGTSGVQGVPPGPPGLGLQGVPGVPGITGKPGVPKGEASEQRI
RELCGMISEQIAQLAAHLRKPLAPGSIGRPGPAGPPGPPGPPPSIGHPGARGPPGYRGPTGELGDPGPRGNQGD
RGDKGAAGAGLDGPEGDQGPQGPQGVPGTSDKGDGAPGEPGPPGDPGLPGAIGAQTGPGICDTSACQGA VLGGV
GEKSGSRSS

6340/6881
FIGURE 5855

TCTAGCCCCGCGCCATCTCGGTGGCCGTCCGCCCACTCCGCGGCGTTTCGGGGAAATGGCTGCGAGACCCTAGAGG
CCTGCGGCTGCGGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTA
CTCGTGAAACAGTGCTGACAACAGTGTGTTGTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAG
GGTTTTTGGTTGTATTATTAGGATTTCAGGGAAAAGTGTCCAAGCTTTCAGTGTGGAGCAGGTATGGACGACAAAG
GCGACCCGAGCAATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTCAGGAAAACATGGGGTTTTTC
GAAGGACCACTATCGCCAAGCGAGAGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGC
AGCAGCTGGGCCTGTCCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTCCTGACCA
TTGCGCGGCGCCGCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCACGTCTCTGCCCCGCCA
CAGACGCCGAGACAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGGCCCCCAGTCTGCTTCCA
CAGCTGTGAAGGAACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTG
ACAGCGATGGCCTGACCTTGAAAGAGCTTCAGAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGC
CCCTGAAAGGGATCCAGAGTCGCCTGCGGAAGAAGCGCCGGGAGGAGGGTCCCGCCGAGACTGTGGGCTCCGAGG
CCAGTGACACTGTGGAGGGCGTCTGCCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCCAGGCTG
GGAAAGATGACAGAGAGAGTAAGTTGGAGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGG
GCCGACCGAAGCCTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACA
GGTTTATGATTTGCTGTGACCGCTGTGAAGAATGGTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGA
GGCTTTTGGAAAGGAATGGGGAAGACTATATCTGCCCAAAGTGCACCATTTCTGCAAGTGCAGGATGAGACTCATT
CAGAAACGGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCGATTGTACAAGTATAGGAA
CAATAGAGCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGGCAAGA
AGAAACTCAAGATCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAATGTATTGGCCCCGGGTGCTGTCACG
TGGCGCAGCCCCGACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGACGACAATGAAGTTTCTAA
GCTCAGGTAAAGAACAGAAGCCAAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAAT
GCGGTGCTCAGGCAGGTATTAAAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAGAGACCACAGTGA
AGAAGGCAGTGGTGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGT
GGGCGAGCGATCACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCAGTGTGTATAAAT
GTATGTATCACCTAGGGGTTGGCCTCCTGGACCCCTCCCGTTCTTTCTGGATAGCCATCCCTGGGCCTGTCCAG
GACTGGGAGTTGCAGCTTTGTGTAAAGCTGATCACAGACACCGGCTGCACCATCAGCGGGAAGCAGAGCCCATGT
CCAGGATGCCTCCTGCTGCCCTGTGTCCATCCCTAGTCTGTGTCAGGACTTCCTGTCACTGTTTTCCAAAGCTGTAA
ACCTCACTGGTGAACGTTACCTTAATGATTGATTCTTTAATCTCTGTTTTCACTCTCAGGCTCTGGTAAGTATT
CGTATTCTCTTCATCCAGTCTGATTGCATAGCCACACTGCCCCGACGCCACATCCACCCCTGTCTGCACATGA
GTTGTTCTGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCACTT
CTTTTTTATGTTGTGGGAATCTTTGCAAGTTAGTGTGTCATCTGATTTTCAGGTGTACATTTATTTTTGACTGGG
CAGATAGGGGATTTTTTTTTTCCATGTCCGATTACACGCTACACACCCACATGAACACATTTCGAACTTCGAAG
GCCACACACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTCACACCTAGAACACTGTCTGACCGCAGGACGCG
TGCTTTGGACTTGGTATTCTACATGTGACTGGCTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGATCA
TATCCTGCCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTGGTG
CAATTTTAATGTTTTCTGTTTCTCAGTTTTCTGCTATAAAACTATTTTCAATTCAGTC

6341/6881
FIGURE 5856

MDDKGDP SNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMPVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLRRKREQEPTEPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLP SKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDCVGIS
EARGRLLE RN GEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSEDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPD SVYCSNDCILKHAAATMKFLSSGKEQKPKPKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETTVKKAVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCMYHLGVGLLDPSRSFWIAIPWACPLGVAALC

6342/6881
FIGURE 5857

GGGAGCGGGAGGGCAGGCGCACCAGGAGGCCGCCCTCAGCACCTCTCGCGACAGCAAGAGAGCGCGAGAGCGCGA
GCCGATGACCAATGAAGCGCCCCCGCGAGGGGGCGGGGCGGACGGCCTCCCGGAAGCGCGGAACCTCAGCTTCCG
TACTTGCGCAGAACTCCCCCTCGCGGCGACCACGCACTACGGGTTGGCGCCAGAGTCAAAAGGCGTCGGCCCTCTG
GCAAGATGGCTGCTGCGGAGGCGTTGGAGCGCGGAAATCTGGAACCGGGATGGCGACGTCTACACTGAGTCGGAG
GCGAAGGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTACTCGTGA
ACAGTGGCTGACAACAGTGTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAGGGTTTTT
GGTTGTATTTAGGATTTTCAAGGAAAAGTGTCCAAGCTTTTCACTGTTGGAGCAGGTATGACGACAAAGGCGACCC
GAGCAATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTTCAAGAAAACATGGGGTTTTTCAAGGAC
CACTATCGCCAAGCGAGAGGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGCAGCAGCT
GGGCCTGTCCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTTCTGACCATTGCGCG
GCGCCGCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAAGCCACGTCTTCCCCGCCACAGACGC
CGAGACAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCCAGTCTGCTTCCACAGCTGT
GAAGGAACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTGACAGCGA
TGGCCTGACCTTGAAAGAGCTTCAATCGCCTTCGAGGAAGCGGGAACAGGAGCCCCACTGAGAGGGCCCCTGAA
AGGGATCCAGAGTCGCTGCGGAAGAAGCGCGGGAGGAGGGTCCCGCGAGACTGTGGGCTCCGAGGCCAGTGA
CACTGTGGAGGGCGTCTGCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCAGGCTGGGAAAGA
TGACAGAGAGAGTAAGTTGGAGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGGGCCGACC
GAAGCCTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACAGGTTTTAT
GATTTGCTGTGACCGCTGTGAAGAATGGTTTTATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGAGGCTTTT
GGAAAGGAATGGGGAAAGACTATATCTGCCCAAACCTGCACCATTCTGCAAGTGCAGGATGAGACTCATTAGAAAC
GGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCGATTGTACAAGTATAGGAACAATAGA
GCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAATCCAAGTGGCAAGAAGAACT
CAAGATCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAAATGTATTGGCCCCGGGTGCTGTACGTGGCGCA
GCCCCACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGACGACAATGAAGTTTCTAAGCTCAGG
TAAAGAACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTCCGAAATGCGGTGC
TCAGGCAGGTATTAAAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAGAGACCACAGTGAAGAAGGC
AGTGGTGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGTGGGCGAG
CGATCACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCAGTGTGTATAAATGTATGTA
TCACCTAGGGGTTGGCCTCCTGGACCCCTCCCGTTCTTTCTGGATAGCCATCCCCTGGGCCTGTCCAGGACTGGG
AGTTGCAGCTTTGTGTGTAAGCTGATCACAGACACCGGCTGCACCATCAGCGGGAAGCAGAGCCCATGTCCAGGAT
GCCTCCTGCTGCCCTGTGTCCATCCCTAGTCTGTCTGAGGACTTCTGTCTACTGTTTCCAAAGCTGTAAACCTCAC
TGGTGAACGTTACCTTAATGATTGATTCTTTAATCTCTGTTTTCACTCTCAGGCTCTGGTAAGTATTCTGATTCT
TCTTCATCCCAGTCTGATTGCATAGCCACACTGCCCGGCACGCCACATCCACCCCTGTCTGCACATGAGTTGTTT
TGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCACTTCTTTTTT
ATGTTGTGGGAATCTTTGCAAGTTAGTGTGATCTGATTTTCAAGGTGTACATTTATTTTTGACTGGGCAGATAG
GGGATTTTTTTTTTCCATGTCCGATTCACACGCTACACACCCACATGAACACATTCGAACTTCGAAGGCCACAC
ACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTCACACCTAGAACACTGTCTGACCCGAGGACGCGTGCCTTG
GACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGATCATATCCTG
CCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTGGTGCAATTTT
AATGTTTTCTTGTCTCAGTTTTCTGCTATAAACTATTTTCAATTCAGTC

6343/6881

FIGURE 5858

MDDKGDP SNEEAPKAIKPTSKEFRKTWGFRRITIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIAARRRGRRSMPVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLP SKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDCVGIS
EARGRLLENGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSEDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPD SVYCSNDCILKHAAATMKFLSSGKEQKPKPEKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETT VKKAVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCMYHLGVGLLDPSRSFWIAIPWACPGLGVAALC

6344/6881
FIGURE 5859

GGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTACTCGTGAACAGT
GGCTGACAACAGTGTGTTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAGGGTTTTTGGTTG
TATTTAGGATTTTACAGGGAAAAGTGTCCAAGCTTTTCACTGTTGGAGCAGGTATGACGACAAAGGCGACCCGAGCA
ATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTTCAAGAAAACATGGGGTTTTTGAAGGACCACTA
TCGCCAAGCGAGAGGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGCAGCAGCTGGGCC
TGTCCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTCCTGACCATTGCGCGGCGCC
GCGGCAGGAGGAGCATGCCGTGTCTCCCTGGAGGATTCTGGTGAGCCACGTCTGCCCCGCCACAGACGCCGAGA
CAGCCTCCGAGGGCAGCGTGAAAGCGCTTCTGAGACCAGAAGCGGCCCCAGTCTGCTTCCACAGCTGTGAAGG
AACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTGACAGCGATGGCC
TGACCTTGAAAGAGCTTCAGAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGGCCCTGAAAGGGA
TCCAGAGTCGCCTGCGGAAGAAGCGCCGGGAGGAGGGTCCCGCCGAGACTGTGGGCTCCGAGGGCAGTGACACTG
TGGAGGGCGTCTGCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCAGGCTGGGAAAGATGACA
GAGAGAGTAAGTTGGAGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGGGCCGACCGAAGC
CTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACAGGTTTTATGATTT
GCTGTGACCGCTGTGAAGAATGGTTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGAGGCTTTTGGAAA
GGAATGGGGAAGACTATATCTGCCCAAACCTGCACCATTTCTGCAAGTGACAGGATGAGACTCATTGAGAAACGGCAG
ATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCGATTGTACAAGTATAGGAACAATAGAGCAGA
AGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGCGAAGAAGAACTCAAGA
TCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAATGTATTGGCCCCGGGTGCTGTACCTGGCGCAGCCCG
ACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGAGCGACAATGAAGTTTCTAAGCTCAGGTAAAG
AACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAATGCGGTGCTCAGG
CAGGTATTAAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAGAGACCACAGTGAAGAAGGCAGTGG
TGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGTGGGCGAGCGATC
ACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCAGTGTGTATAAATGCTCTGGTAAGT
ATTCTGATTCTCTTCAATCCAGTCTGATTGCAATAGCCACACTGCCCGGCACGCCACATCCACCCCTGTCTGCACA
TGAGTTGTTCTGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCA
CTTCTTTTTTATGTTGTGGGAATCTTTGCAAGTTAGTGTTCATCTGATTTTCAGGTGTACATTTATTTTGGACT
GGGCAGATAGGGGATTTTTTTTTTCCATGTCCGATTACACGCTACACACCCACATGAACACATTCGAACTTCG
AAGGCCACACACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTACACCTAGAACACTGTCTGACCGCAGGAC
GCGTGCCTTGGACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGA
TCATATCCTGCCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTG
GTGCAATTTTAATGTTTTCTTGTCTCAGTTTTCTGCTATAAACTATTTTCAATTCAGTC

6345/6881
FIGURE 5860

MDDKGDP SNEEAPKAIKPTSKEFRKTWGFRRITIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMPVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLP SKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDCVGIS
EARGRLLENGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSEDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPD SVYCSNDCILKHAAATMKFLSSGKEQKPKPEKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETT VKKAVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCSGKYSYSLHPSLIA

FIGURE 5861

[illegible]

6347/6881
FIGURE 5862

MASPRTRKVLKEVRVQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVRSVTMDKWKDIELEKM
KAGGNAKFREFLESQEDYDPCWSLQEKYNSRAAALFRDKVVALAEGREWSLESSPAQNWTPPQPRTLPSMVHRVS
GQPQSVTASSDKAFEDWLNDLGSYQGAQGNRYVGFNTPPPQKKEDDFLNNAMSSLYSGWSSFTTGASRFASAA
KEGATKFGSQASQKASELGHSLNENVLKPQAEKVKEGKIFDDVSSGVSQ LASKVQGVGSKGWRDVTTFSGKAEG
PLDSPSEGHSYQNSGLDHFQNSNIDQSFWETFGSAEPTKTRKSPSSDSWTCADTSTERRSSDSWEVWGSASTNRN
SNSDGGEGGEGTKKAVPPAVPTDDGWDNQNW

6348/6881
FIGURE 5863A

CACCAAGCCAGGATCCGCGCACTCCTGGTGGGTCAGAGTGGAGAGAGACCGGCCCCAGTTCCGCTGCCTGCCCC
CCGTGCCTGCTGACATGGTCTTCTGGTGGACGGGTCTTGAGCATTGGCCACAGTCACTTCCAGCAGGTCAAGG
ACTTCTGGCCAGTGTCTATCGCACCCCTTTGAAATCGGGCCGGATAAGGTCCAAGTAGGCCTGACTCAGTACAGCG
GGGATGCTCAGACTGAGTGGGACCTGAACTCCCTCAGCACCAAGGAACAGGTGCTGGCAGCTGTGCGCCGCTCC
GCTACAAGGGGGGGAACACGTTTACAGGCCTTGCCCTGACCCACGTGCTGGGGCAGAACCTGCAGCCGGCGGCTG
GCCTCCGTCCAGAGGCAGCCAAGGTGGTGAATTCTGGTGACGGACGGCAAGTCCCAGGACGATGTGCACACTGCTG
CCCGTGTCTCAAGGACCTGGGCGTGAACGTCTTCGCTGTGGGTGTGAAGAACGCCGATGAGGCTGAGCTGAGGC
TCCTGGCGTCCCCGCCGAGGGACATCACCGTCCACAGCGTGCTGGACTTCTGCAGCTCGGCGCGCTGGCTGGCC
TGCTCAGCCGTCTCATCTGCCAGAGGCTCCAGGGTGGGAGCCCGCGGCAGGGGCCAGCAGCGGCTCCAGCCCTGG
ACACCTTCCCTGCCCCACCAGCCTGGTCTGAGCCAGGTGACCTCCTCCAGCATCCGCCTGTCTGGACTCCAG
CCCCCGGCACCCCTCAAGTATCTGATCGTTTGGCGAGCCTCTAGAGGTGGCACCCCCAGGGAGGTGGTGGTGG
AGGGACCCGCCGCTCCACGGAGCTGCACAACCTGGCCTCCCGCACAGAGTACCTGGTCTCCGTGTTCCCCATCT
ATGAGGGCGGGGTGGCGAAGGCCTGCGGGCCTGGTGACCACAGCACCTCTGCCTCCGCCCGGGCGCTGACCC
TGGCCGAGTGACGCCCAGAACCGTCCACCTCACCTGGCAGCCCTCGGCCGGGGCCACCCACTACCTGGTGCAT
GTTCTCTGCTTCCCCAAGGGTGAAGAGGAGGAGCGAGAGGTGCAGGTGCGGGCGGCCGAGGTGCTGCTGGATG
GCCTGGAACCTGGCAGGGACTATGAGGTCTCGGTGCAGAGCCTGCGAGGCCCTGAGGGCAGCGAGGCCGGGGCA
TCCGTGCCAGGACCCCCACCTTGGCCCCCGAGACACCTGGGCTTCTCAGACGTGAGCCACGACGCGGCACGAG
TGTTCTGGGAGGGTGGCCGAGGCCTGTGCGCCTGGTCAGGGTACCTATGTGTCCAGCGAGGGTGGACACTCGG
GGCAGACAGAGGCTCCTGGGAACGCCACCTCGGCCACGCTGGGGCCTCTCTTCTCCACCACCTACACTGTCC
GTGTACCTGCCTCTACCCTGGGGGTGGCTCCTCTACGCTGACTGGCCGGGTGACCACCAAGAAAGCTCCCAGCC
CAAGCCAGCTGTCCATGACGGAGCTGCCAGGGGATGCAGTCCAGCTGGCGTGGGTGGCCGACCCCGTCTGGCG
TGCTTGTCTACCAGATCACGTGGACGCCCCCTGGGAGAGGGGAAGGCTCACGAGATCTGTCTCCAGGGAACCTCG
GCACGGCCGTCTGCCTGGCCTAGGGAGGCACACAGAGTACGACGTACCATCTTGGCCTACTACAGGGACGGGG
CCCGCAGTGACCTGTGTCCCTCCGCTATACCCCTCCACGGTGAGCAGGAGCCACCTCCAACCTGGCCCTGG
CCTCGGAGACCCCGACAGCCTGCAGGTGAGTGGACGCCCCGCTTGGCCGCGTGCTCCATTACTGGCTCACCT
ACGCCCCCGCCTCTGGCTTGGGACCCGAGAAATCCGTCTCTGTGCCAGGAGCCAGGAGCCACGTGACACTGCCCG
ACCTGCAGGCAGCCACGAAGTACAGGGTCTTGGTCTCAGCTATCTATGCAGCAGGCAGGAGTGAGGCTGTGTCTG
CCACGGGCCAGACAGCCTGCCAGCCCTCCGCCCTGACGGCTCCCTCCCAGGGTTTGACCTGATGGTGGCCTTCA
GCCTGGTGGAAAAGGCTTATGCGTCCATCCGGGGCGTGGCCATGGAGCCCTCTGCCTTCGGTGGGACCCGACCT
TCACGCTCTTCAAGGACGCCCAGCTGACAAGACGGGTGAGTGACGTCTACCCAGCCCCCTACCTCCAGAGCACA
CCATCGTCTTCTTGTGCGCCTACTTCCCGAGACACCCCGTGAGGCCTTCGCGCTGTGGCAGATGACAGCCGAGG
ACTTCCAGCCCCCTCCTTGGGGTTCTGCTGGATGCCGGGAAGAAAGTCCCTGACCTACTTCCACCGTGACCCAGGG
CTGCCTTGACAGGAGGCCACCTTCGACCCGACGGAAGTGAGGAAGATTTCTTCGGGAGCTTCCACAAGGTGCACG
TGGCTGTGGGCCGCTCCAAGGTGAGGCTCTATGTGGACTGCCGGAAGGTGGCTGAGCGGCCCTTGGGGAGATGG
GCAGCCACCCGCTGCGGGCTTCGTACGCTGGGGAGGCTGGCCAAGGCCAGGGGCCCGGAGCAGTTCCGGCCG
CGTTTCAGCTCCAGATGCTGCAGATCGTGTGAGTGACACCTGGGCCGATGAGGACCGGTGCTGTGAGCTCCCTG
CCTCGAGGGATGGAGAGACCTGCCCCGCCTTCGTGTCTGCCTGTTTCTGTCTCAGAGACCCCTGGGCCCCCAG
GACCTCAAGGACCCCAAGGCCTCCCTGGGAGGAATGGCACCCAGGAGAGCAGGGCTTCCAGGGGCCAGGGGTC
CACCAGGGGTCAAAGGAGAGAAGGGAGACCATGGGCTTCCAGGCTTGCAGGGCCACCCCGGCCACCAGGGCATCC
CCGGGAGAGTTGGCCTCCAGGGACCAAGGGGAATGAGAGGCCTGGAGGGAACTGCTGGCCTGCCTGGACCCCTGG
CCCCAGGGGGTTCCAGGGCATGGCAGGGGCCAGGGGCACTAGTGAGAGCGAGGACCTCCAGGGACCGTGGGGCC
CACAGGACTGCCAGGGGCCAAAGGGGAACGAGGAGAGAAGGGCGAGCCGAGTCCCTTGCCACCCTCTACCAGCT
TGTGAGCCAGGCCTGTGAGTCTGCCATTGACACACGTGTCAAAGTTCGACTCCTTCCACGAGAACCAGGCC
CCCCATGCCCCATCTTGGAGCAGAAGCTGGAGCCGGGCACTGAGCCCTGGGGTCCCCTGGCACCCGACGAAGGC
CCTGGTTCTTGGAGAATGGGGCGTGGTGGCCGCCACCTTGAGGGCAGAGGGGAGCCTGGAGCTGTTGGTCAAT
GGGCAGCCCTGGGCAGCAGGGGGCTAGCACCCAGGGCCTTGGGAGTGACAGGACATTTTCTGCACGTCCCCGAG
GAACGCTGAGCCTTCTCCCTGGGTTTGTCTGGACACCGAGAGCGACCACATCCTGGAGAAGCCAGGAGAAAAGC
TCAGGAAGAGCCTGCAGGTGAAGGAGAGGGGAAGCAGCGGCCTCGGCCAAGGCCACCCCATACTCTTGGCTCTG

6349/6881

FIGURE 5863B

TAGCATTTCCTCAAGTTTCAGATAAACCCCTGAGTGCTCACCCAGCCAAGCGAGGCGGGAGTCATTTCTGGGAGAGT
GTCCCCACCCCTGGCTCTGTGCACCCACCTTGAGGCCCTGCAGCTTCAGCCGAGTGGGGAAGGGGAGGGGCTG
GGCTGATGGCGAATCGGGTTCAGGAGGGCAGCAGTGCCCTGTGGCCGTCTCAGTAGCTCTAAAACAGGCTCAACA
ACATGCCCCGCCCCCTTTCTCTGGGCCTCATCTAAGCCTGGCCAGGGCCCTGTGGGCCCCGCTCTCTCTGCGCCTC
ACGCAGGCAACAGATGGTTCCACTGCTGGCCCACCAAGTCACCTGCACGATGGCTCCTCCCTCAGAACAGCACTCC
CACCCCGGGCCCCAGCACCTTCACATCTGGGCACAGGCAGGTCCCTGCCTGCCTCATCGTCCCCCTCTGTCCCCAGC
CCAAGAAGGAGTTTCAGATCCTGTGTGTGAATGGCCACCCCTCACCCACCCAGCCCTGTGCTGAGTTTCCTTGTGCA
GGGACATTGCTTTGAGACTTGGCACCATCAGCCCCCTGGTCTTAGGGTCTCAGAGCAAGGTCATCCCTCAGCAGG
CTTCTGGCCTGTGCGCTCCTCAGCACCTCTGCCAGGTCTCTCCCAACCATCACAGACGCTGTGTGAGCCTGGAC
TTCCTGCCTTATCCCCACTGTGGCCCAAACAGCATGGGGGCAAGCTCAGAACACACACCTGGGCTTCTGGGCTT
GTGGCCCGTGGGGGTGATGTGGGAACCTTCTACTTCTTTTCCAAACAAATATTCAGTAAGTAGTCCACTGTTACCA
CTTAGGCAGCTAAGCAAGAAAGGTGCCAGAAATGAAGAGGGAAGCCATATCATTGAGGAGAGAATGAAAAGTATT
AAAAAGGAACAAAGAGAGACCCTTGATATTGACAGAAGGAAAACCCACCAAGATCACCAGTGCAGCATTGCGTGC
ACCAAAGCATACCCCAAAGAGGTGAGCGCAAAACAGCTTCAGGGCAAAACACTTCATCTATGATTCAACTGTTCCA
GGAAGTACAGACCTGGAGACCAATAGAGAGTCATAGGCAGGGTCAGCAGGATGGGAGAGAGCGCCTGCACCC
ACAGGAGCCACAGCCCTGACTGAGGCCAGGAAGCAGCCCCAAATGCCAGCTCCCACTGCAGCATGAGAACAGAAA
CAGACCACTGAAAATTCCCAAAGTCTGTGGACAAATCAGACGTCGAAGAAGTCACGTGGCATCGAGACAGATTTT
GCACTGAGGGACAAGGAGAGCATGTGGCCAAAGTAGGTGCAGGTAAAGCAGCATCTGGGGCAGAGTTATAGCCTT
CAGTGCAGGTATCAGACACAGTTGTTGAGAGCAGCAGGCCAAAGCCAGCCCCCTCCGTCTGCAGGGAGGACACCTA
GGTCACTTGGCTTCTGTTGGGGAGCTGAGTTGCTTCAGATTGTGTGACCAGCAAAACAGCTTGGTTGCTCTCACT
TGGTTTCTCCAGGGCGGGGAATTACATGTCCCCAGCTGAACTGAGAAGGCTCTTTGAGCAGTGGAGTGAGCAGGC
TTTGTCTAGAGGCAGGAGTGGGGCTAGAATCAAGCCCAGAGCCCACAGGGCATCCAGAGCCTTCCAAAGGAGCCC
CTCTCCTGGGGCTCTCCAATTTGATGAAGGGACTGGGCACTGGGTGGCTGAGACCACATTGGCAGCCAGGAGGAG
GCAGCCTGGCCGGGGGAACAGGGTGGCTCTAATCCCCACACCCCTCAGCTGCCCTACCCCGCCACGCTGG
TGTGACACCAGTGATGCTCAGCCTCAAAGGGGAGTCCGGCTGTCTTCGGGAAACTGACTTTATGCTGGAGGCCA
ATTAAATGGCACAGCAAAGGCAGCGCCAGCTGGTGCCAGGCAGCTTAGGGACTGGTCCCTGAGGCCCCACCC
GCCCCAGCCTGTGCACTGGAGCTGAGTACGAATCAAAGGTGAGGATGGCAAGGGAGCTGAGAGCAGCCTCCGGAT
GCACCAAACCGCCTGGCTCCTGTTGTCAGGAAGGCAGCCTCCCCGAGACCCAGCCGACCTGCACGTCTCCCATC
AGCCCCGACTCCACCGCATCCCTCTGGGTCTTTTAGGAGCCCCAGGGACTGAGCCGGGGCTCACGCTCCTGGC
CAGAGCGCTGGGTTTCTGGCAATGCCTCCCCCTCTGCCTTTACGGCCACAGCTCTCCCCCTCCAGAGGCCCTCTG
TAGTGGGCTCGGTCCCCCTCTCCACCCCCAGAGGCAGCACAGCTTCAGCCCTACGCAGTGTGGGGCTCCGGGAG
GAAATGCAGGGAGGTGCTTGGTCTTGGCCCAGAGCTCATGGCCTTAGGTGCTGCCCCCAGTCACCCCGTGGCCA
TGCAGCCGGGGATGTTTCAGCTCAGGCCAGCCACCGAGGTGGTGTGACGCAAGGCTGATCTGACGCTCAGCTCAGG
CCGCTGGGGTTCATGGGGGTTGTGGGAAGGTCTGGAATCACGGGGCTCACGCTGGGGTTCAGAGGTGGTGTGGCT
GTGTGGACTGTAAGGGGCGTGCAGCCATGCGTATCTGACCTGCCCTCCCTAGGTCTGCAGGCAGTGCCGAGTGGC
TCTGCCTGAGGCCCCAAGAGCGACCTTGGAAAGCTCCAGGCCTTCACAGCCCCCTCTGAGAGCCACCTGCAAGGTGG
GGAGCTGGGAAGAACGGCTCAGTGATGAGCTCAGAGGGAGGGGTGGGCACAGCGCCAGGAAGGCGGGTGCCTGC
AGGCCTGGGAGGAATGTGTAGCAGGAGGCAGGGGGTGTGTGCCCCGAGGACCAGCAGGTGAGGCGTGTCCACCC
ACAGAGGATGGCTCTGGCCCAGGCAGTGTGAGAAATGGAAGCTGAGGAAACCCAAACCCAGCTGTAGAGGAGCCT
GCCCCGATGCCATCTGCACCTGGGGGGCGACGTATGGCTGCCAGCCTCTTCATCTACCAAGGACCAGGGCAGTGG
GGACGGGAGAGCTGGGACACGTGGACTCACACCAGGGCAGATGGTGGGGGAAGCCAGTGTCTGTAGATTTCAGTGC
ATTTCTTGGGGAAGGGCTGGAACATTTGGACTTGAGCCCCAGCACAGAGACGATGTGATAATACAGCCCCCAT
CGTGATCTGATGGTAAGTACAGAACTCCTTGCCAGTGGAGAAACACTCTCCTCTCATGTGTGGAATATCCACAC
ACTAACCATGAAGTGGGCCATAAGAAACCTTACATTCCAAAGGATCCTGTGTTGAGAACTCACTCACTCACTGA
TGAAACTGGAAAAACAACCAATGATAACAAGCTAAAGAATGCCTCTAGAAGCTAAAAGACACACCCATGACTCCA
CAGTAATTTCATGGGTTAAAGAGAAAAAAGGAAACGTGAAGATACTTGTAACCAATAATGATGGATGCAGCGCCA
CGTCAGAATCTCTGTGCTGCAGCTGCAGTGGTACCTAGAGGGCAATTTATAGCTGTAAATACAGTGCTTTGTTTT
GTTTTCTTGTTTTTTGTAGACAAGGTCTTGCTCTGTACCCAGGCTGGAGTACAGTGGCATGATCTCGGCTCAATG

6350/6881
FIGURE 5863C

CAACCTCTGTGCCACCCTGGGCTCAAGTGGTCCTCCTGCTCCGGTCTTCTGAGTAGCAGGAACCACAGGCGTGCG
CCACCACGCTTGGCTAATGTTTTTGTATTTTTTAAATAGAGACAGGGTGTTGCCGTGTTACCCAGGCTGGTCT
TGAACCTTCTGAGCTCAAACGATCCACCCTCCTTGGCCTCCCAAAGTGGTGGGATTACAGGTGTGAGTCACCTCAC
CGGCCCTTAAACACAGTTTTTAGGGAAGATTCCAACCTCAAACAATTTTAAATAGTAGAAAATAAACCTGAAGCA
GTGTG

6351/6881
FIGURE 5864

MVAFSLVEKAYASIRGVAMEPSAFGGTPTFTLFKDAQLTRRVSDVYPAPLPPEHTIVFLVRLLPETPREAFALWQ
MTAEDFQPLLGVLLDAGKKSLTYFHRDPRAALQEATFDPQEVKIFFGSFHKVHVAVGRSKVRLYVDCRKVAERP
LGEMGSPPAAGFVTLGRLAKARGPRSSSAFQLQMLQIVCSDTWADEDRCCelpASRDGETCPAFVSACSCSSET
PGPPGPQGPPGPPGVKGEKGDHGLPGLQGHPhGHQGIpGRVGLQGPKGMRGLEGTAGLPGLAPGGSRAWQGP GAL
VESEDLQGPWGPQDCQGPKGNEERRASRSPLPPSTSL

6352/6881
FIGURE 5865

GGCACGAGGCTCTGTCGTGGCGCGGCTTCCCGCGGTCTTCTCTGCAAATGGGCTCCGTGGCCTAGCGCCCCCGTC
CCCGCCACCCGTGATCGTGCGCCGAGGCCCGCGAGGGGTGCGCGCCAGATCCCACCAGCCAGCAAGCTAAAGCA
TGGCGGCCATCCCCCTCCAGCGGCTCGCTCGTGGCCACCCACGACTACTACCGGCGCCGCTGGGTTCCACTTCCA
GCAACAGCTCCTGCAGCAGTACCGAGTGCCCCGGGGAAGCCATTCCCCACCCCCAGGTCTCCCCAAGGCTGACC
CGGGTCATTGGTGGGCCAGCTTCTTTTTCGGGAAGTCCACCCTCCCGTTTCATGGCCACGGTGTTGGAGTCCGCAG
AGCACTCGGAACCTCCCCAGGCCCTCCAGCAGCATGACCGCCTGTGGCCTGGCTCGGGACGCCCCGAGGAAGCAGC
CCGGCGGTCTAGTCCAGCACAGCCAGCGCTGGGCCCCCGTCCTGACCTGAGCGGTTACCACCAGCCCCAGGCCTGC
GGAGGCGCTAGTCCACCAGAGCCCCCTCCCCGCCCTCTCCCCACTCCGCATCCCTCGCCCCCTCCCCACCTCCC
ACCCCCACCTGTAAACTAGGCGGCTGCAGCAAGCAGACCTTCGCATCAACACAGCAGACACCAAAAACCAAGTG
AGAGCCCCGCTCTCTACCGCCCGGCCCCAGCACTCGCTAGCTTTCTGACACCTGGAAGTGTGCACCTGGCACCA
AGCGGAAAATAAACTCCAAGCAGCCAGTAGCCCCGAAAAAAAAAAAAAAAAAAAA

6353/6881
FIGURE 5866

MAAIPSSGSLVATHDYRRRLGSTSSNSSCSSTECPGAIPHPPGLPKADPGHWWASFFFGKSTLPFMATVLESA
EHSEPPQASSMTACGLARDAPRKQPGGQSSTASAGPPS

6354/6881
FIGURE 5867A

TGCTCACCTCTGACAGCCAGACAAGGGCTGTGCTCAGGGGCAGCTCGGCTGGGCACACAGTAGGTGCTTTAGCGG
ACAGCACTGAGGCCCCCAGCAAGAAGCCCCATGAGCTCCTCCCCCTCCCGCAGTGCCGCCGACATCTACATCCGGG
AGTATTTCCACAGCCACGTACGCGCGGCCACCCGAGGCCACTCCTCTCCGTGTGATGTACACGGACCGGCCGC
TGAGCCAGACGGACCCAGTCACGCTGCAGTACTGTTGCCTGACCGACGACCGCCAGGCTTTCCGCCCGCCACAC
GGGCAGAGCTGGCGCGGCACCGCGTGGTGGTACCACCACCTCCAGGCCCGTGAGCTCAGGGTGCCGGTTCGGCT
TCTTCTCCACATTCTCATCGATGAGGCGGCCAGATGCTGGAGTGCAGGCCCCTACCCCGCTGGCCTATGCCT
CGCACGGCACCCGCTCGTGCTGGCGGGCGACCACATGCAGGTACACCCCGGCTGTTCAGTGTGGCCAGGGCCC
GGGCGGCCGAGCACACGCTGCTGCACCGCCTCTTCTGTGCTACCAGCAGGAGACTCACGAGGTGGCGCGGCAGA
GCCGCTGGTCTTCCACGAGAACTACCGCTGCACGGACGCCATTGTGAGCTTCATCTCGCGGCACCTTCTACGTGG
CCAAGGGCAACCCCATCCACGCCAGGGGCAAGGTTCCGCCCCACCCCGGCACTACCCGCTCATGTTCTGCCACG
TGGCGGGCAGCCCAGACCGGGACATGTCCATGGCGTCTGGCTGAATCTGGCTGAGATTGCGCAGGTCTGTCGAGA
AGGTGCAGGAGGCCTACAACACCTGGCCAGCTGCTGGGGCGGCCGCGAGCAGAGGTGCATCTGTGTCGTTTTCC
ACGGTGCCAGGTGAGTGCAGTGCAGGAGCTGAGGAGGCGGGACCTAGGCCAGGTGTCTGTGCGCAGTTTTG
AGATCCTGCCAGGGCGGCAGTTCCGGGTCTGGTGTGCTCAGCACTGTGCACACCTGCCAGAGCCTGCTCAGCCCTG
GGGCACTGGCCCTGAGTTCTTACCGACGCGCCGCTGCTCAACACCGTCTGACCCGCGCCAGTCCCAGCTGG
TGGTAGTGGGGACGCCGTGGCCCTCTGCTCCTTCGGGGCCTGCGGCAAGCTCTGGGAGAGCTTCATCCGTGAGT
GCGTGGAGCGGCACAGTGTCTGCCCGAGGGCCTGTCCATGGAGCAGGTGCGAGCAGGGTGTGGCGCAGAGACGGC
GCTGGCCTCCCCGAGGCACACAGGCTGGGGCAGCGGGGAAGTGGGAGGCTGCCCCAGAGCCAGTAGGGGACCTGG
CCGAGGAGCAGGCGGCTGTGGTGA₁CGGCCATGGTGAAGGCAGAGCCGGGAGATGAGGCTCTGAGCCAGCATCCC
GTGACATCACGGCAACCACAGCGCAGACGGAGGCTGCGGCAGCACCAGCAGGAGACGCAGTGAAGGAAGACGTGG
TGCCCCGGGGCCTGTGCGGCAGGAGCGGCTGCTGCAGCGGGCGTGGAGTCCACGGAGGCTGAGGATGCAGAGGCTG
ACTTCTGGCCGTGGGACGGGGAGCTCAACGCTGACGACGCCATCCTACGGGAGCTTCTGGACGAGAGCCAGAAGG
TGATGGTGACCGTCCGGGAGGACGGGCTGTGAGACTGTGCGCCAGGCCCGAGTCCCTGCAGCAGGCCCGGCTGT
ACGAGAACCTGCCCCCGGCTGCGCTACGGAAGCTGTGACGCGGAGCCCGAGCGGTACCGCCACTGCTCTTTCG
TGCCAGAGACCTTCGAGCGGGCGTACGCCATCCCGCTGGACGATGCCTCCTCGGGCCCCATCCAGGTGAGGGGCC
GCCTGGACTGTGGGATGGCCTTCGCCGGGGATGAGGTGCTGGTGCAGTCTTTCGGGAGACAAGGCGCCCCGAGG
GGCGGCTTCGGGGCCGCGTGTGGCGTGTGAAGAGGAAGAGGCACGAGCTGGCGTTTGTGTGCCGCATGGACA
CGTGGGACCCGCGCATCATGGTCCCATCAATGGCTCCGTGACCAAGATCTTCGTGGCCGAGCTGAAGGACCCAT
CGCAGGTCCCCATCTACAGCCTCCGGAAGGGCCGGCTGCAGCGTGTGGGGCTTGAGAGGCTCACCGCCGAGGCC
GGCACAGCCGGCTCTTCTGGGTCCAAATTGTCTGTGGCGGAAGGCTTCTACTACCCGCTGGGCATCGTCCGGG
AGGTGCTGCCTGAGGCCAGCACCTGGGAGCAGGGCCTCCGCATCCTCGGCCTGGAGTACAGCTTGAGGGTGCCCC
CGTCGGACCAGGCCACCATCACCAAGGTGCTGCAGAAATACCACACGGAGCTTGCCCGGGTTGCCGGCCGCCGAG
AGGACTGCCGCGCCTTCTTGACCTTCACTGTGGACCCCCAGGGCGCCTGCAACCTCGATGATGCCCTCAGTGTCC
GAGACCTGGGTCCAGGTGCGAGGTGGCTGTGCACATCACTGATGTGGCCAGCTTCGTGCCCGAGGACGGGGTGC
TGGACGTGGAGGCGGAAGGCAGGGCGCTGCGTTCTATGCCCCCGGCAGGGAGCCAGTGCCCATGCTGCCGGCCA
GCCTCTGCCAGGACGTCTCTAGCCTCCTGCCTGGCCGGGACCGCCTGGCCATCTCCCTGTTCTCACCATGGAGA
AGGCCAGTGCCAGCTGAAGAGCCTGCGCTTTCACCCCTCCGTGGTCCAGTCTGACCGCCAGCTGTCTACGAGG
AGGCGGAGGAGGTGATCAGGCAGCACCCGGGTGCCGGCCGTGAGCTGCCGGCCCCGCTGGACTCCGTGGACGCCT
GCGTGTGGCCGCGTGTACTTCTCTCGGCTGCTGCGCCGGCACCGCCTGCGGTCCGACTGCTTCTATGAGCAGC
CGGACGAGGACGGCACCCCTGGGCTTCCGCGCGGGCCACATCATGGTGAAGGAGTACATGATTAGTTTAATAGGC
TCGTGGCTGAGTTCTTGGTGGGCAGCGAGTGCACGCGGACGGTACGCCTCTGCGGTGGCAGCCAGCACCCCGCA
GCCAGCAGCTCAAGGCCCTGTGTGAGAAGCATGGGGACGGGTGCCCTGTCACTGCACCTCGGCCACCACCTGC
ACGGCGGGCGGGGGCAGTCCCCCGACACGCGGCTGCACCTCCTGGCCTCCCTCTGGAAGCAGGTCCAGTTTGCTG
CCCGCACCCAGGACTACGAACAGATGGTGGACTTGGTACCACGGACGACATGCACCCATTCTGGCTCCTGCAG
GCCGCGACCTCCGCAAGGCCCTGGAGCGCTCGGCGTTGGGCCGTGCGCCCGGGGCCACCAGCAGAGGGCGGCC
ACTACTCGCTGCAGGTGGACTGGTACACGTGGGCCACCTCGCCCATCCGCAGGTACCTGGACGTGGTGTGTCAGC
GGCAGATCCTGCTGGCGCTGGGCCATGGGGCTCTGCCTACTCTGCCAGGGACATCGATGGGCTCTGCCAGGCCT
TCAGCCTCCAGCACGCACTTGCCAGAGCTATCAGCGCGGGCGCGCAGCCTGCACCTGGCCGTGCAGCTCAAGG

6355/6881
FIGURE 5867B

CCCAGCCTCTGGACAAGCTGGGCTTCGTGGTGGACGTGGAGGCGGGCTCCCGCTGCTTCCGGCTGCTCTTCCCCA
GCAACCGGGAGACGCTGCCTGACCCCTGCCCCGTCCCCTACGGCTCCCTGCAGCTGGCCGAGCACCCCCACGCCC
TGGCAGGCCCGCCGGGCTGCGGCTCCTGTGGCGGCGCCGTGTCTACTCAGCGCAGGGATCCAGCCCCGCCCTGC
CACTGCCTGGCACTGTGCCGACCCACACACCCTGGCCGTGGAGACGGCCCTGTGGAAGCAGCTGCTGGAGCTGG
TGGAGCTGCAGCGCTGGCCGAGGCGGCTGCTCTCATCCAGGAGAAGGGCGAGGCGTCCCAGCGGCGGGAGCTGG
TGCAGGTGCAGCGGAGCCACTGTGGCCATTTCTGGAGGTGGCCCGGGAGCTGGGCAGTGGGGACACCCTGCAGG
TGCAGCTCGGCACCAGCCTGCAGCACGGCTTCCTGGTACCGAGCCCTCAGCTCTGGACGGTGGCACCGGGCTTCA
GCCTCTGCCTGGAGCACGTGGAGCGGCCCGGAGACTGCTTCTCAGGCCGTGTGTACCGGGCCCCGAGGGACCGGT
ACCGCGACGTGGATGAGTACGCCTGCGTGTGGGAACCATTCTGCGCCCTGGAGTCCGCCACCGGCGCGGTTGCCG
AGAATGACTCCGTCACACTTCAGCACCTGAGTGTCTCCTGGGAGGCGTACGGACGCCGAGGGGCGAGCTGCAGG
GCGCCTTCCGCCTGGAGGCCGCTTTCCTCGAGGAGAAGTGTGCCGACATCAACTCAGCTGCTGCTACCTCTGCA
TCCGGCTCGAGGGGTGCCGCTCCACGGCCAGCCACGCCCTGGGCCAGCAGCCTCGGCCCTGGCCTGAATG
TTGACCCCGGCACGTATACCTGGGTGGCCACGGGCAGACGCGAGGACTGGGACCAGGAGCGCCGGGCAGACCGGC
AGGAGGCTCCCAGACGGGTGCACCTCTTCGTCCACCACATGGGCATGGAGAAGGTTCCGGAAGAGGTGCTGAGGC
CGGGCACCCCTGTTACCGTTGAGCTGCTGCCCAAGCAGCTTCCTGATCTCCGCAAGGAGGAAGCCGTGCGTGGAC
TAGAGGAGGCGTCCCCGCTGGTCACCAGCATCGCACTGGGCCGGCCCTGTCCCGCAGCCCTCTGCAGAGTGATCC
CCAGCAGGTTCTTGGAGCGGCAGACCTACAACATCCCCGAGGCCGCCACAAGCTGAACCCAGCCAGAACGTGG
CGGTCAGGGAGGCTCTGGAGAAGCCTTTACGGTCATTTCAGGGCCCACCAGGTACAGGGGAAGACGATCGTGGGCC
TCCACATCGTATTCTGGTTTCATAAATCAAACCAGGAGCAGGTGCAGCCCGGAGGCCCGCCCCCGTGGGGAGAAGC
GGCTGGGGGGTCCCTGCATCTTGTAAGTGGGCCCTTCAACAAGTCGGTGGATGTCTGGCAGGACTGCTCCTGA
GAAGGATGGAGCTGAAGCCCCCTCCGTGTGTACAGTGAGCAGGCTGAGGCCAGCGAGTTCACAGTGCCGCGTGTGG
GCAGCAGGAAGCTGCTCAGGAAGAGCCCCGGGAGGGGAGGCCGAACCAGAGCCTCAGGAGCATCACCTGCACC
ACCGGATCCGGCAGGCCCCCAACCTTACTCGTCGGAATCAAGGCCTTTGACACCCGGCTGCAGAGAGGGGAGC
TCTTCTCCAGGGAGGACCTGGTCTGGTACAAGAAGTCTTGTGGGAGGCTCGGAAGTTCGAGCTGGACCGGCATG
AGGTATCCTCTGCACCTGCTCCTGTGCAGCCTCTGCCAGCCTCAAAATCCTGGACGTGAGGCAGATCCTTGTTG
ACGAGGCAGGCATGGCCACGGAACCTGAAACCTCATCCCCCTGGTGCAGTTCACACAGGCCGAGAAGGTGGTTC
TTCTCGGAGACCACAAGCAGCTGCGGCCTGTGGTCAAGAATGAGCGGCTGCAAAACCTGGGTCTGGACCGGTCTC
TGTTGAGCGGTACCACGAGGACGCACATATGCTGGACACTCAGTACCGCATGCATGAGGGCATCTGTGCCTTCC
CCTCTGTGGCGTTCTACAAGAGCAAGCTGAAGACGTGGCAGGGCCTGAGGAGGCCGCCAGTGTCTGGGCCACG
CTGGCAAGGAGAGCTGCCCTGTATCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGACG
AAGGGAATGAGAACTCCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATACCAAGCAGCTGACCCTGG
GGAGGACCGTAGAGCCCCAGGACATCGCCGTCTCAGGCCCTACAACGCGCAGGCCTCTGAGATCAGCAAGGCC
TTCGGCGAGAGGGCATCGCCGGGGTGGCCGTGTCTTCCATACCAAGAGCCAGGGGAGCGAGTGGCGCTATGTGC
TGGTGAGCACCGTCCGCACCTGTGCCAAGAGCGACCTGGACCAGCGGCCACCAAGAGCTGGCTCAAGAAGTTTC
TGGGCTTCGTTGTGGACCCCAACCAAGTGAATGTGGCTGTACGCGGGGCCAGGAGGGGCTCTGCCTGATCGGAG
ACCACCTCCTTCTGCGCTGCTGCCCCCTCTGGCGTAGCCTCCTGGACTTCTGCGAGGCTCAGCAGACCCTCGTGC
CTGCCGGCCAGGTGCGCGTCTGCAGGAGGCCAATATGCCTTCTTGAAGAGCCCTCTCCACCTGCAAGGTGCCAG
GACTGGGAGGGAAAGTCCAGGGCCCCCCCCACCTCCCCACCACCTCCGCCATCAGCCTGCCTGGGCCAGCCTGC
CTCCTGGCCTCAGGATCTCCCTGGGGCAGGAAGTGGGTGGACTTGGAGGAGGAACGGCAAGGGCCGGTCCCCACA
CTCTTGCTCCTCTGGGCATCTGGGGACAGGAACACCTCTCAGGGTGGCCAAGAGGGGCTTCTTGGGACCAGTG
CAAGGAAGTTCTGCTGTCCCTGGGAAGTCTCAGAACCAGGAAGGAAACCTGTGGAGGCTGCCCTTTGACCTTTG
GACGCCACCTGTAATCACTCTGGATGGTGTCTGTGGAGTTCAGGTTTATTTTCTATTTAAATGAACTAAAAAGCCA
GCATCCTGCCGGGCGTGGTGGCTCACGCCATAATCCAGCACTTTGGGAAGCCGAGGCGGGCAGATCACCTGAGG
TCAGGAGTTCGAGACCATCCTGGCCAACATGGTGAAACCCGCTCTCCACTAAAAATACAAATTAGCTGGGCGTG
GTGGCGGGCGCCTGTAATCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGACTCCAGGAGGCGCAGGCT
GCAGTGAGCTCTGATGGTACCACTGCACTCCAGCCTGGGTGACAGAGCGAGACCCTGTCTTAAAAAATAACAA
AACAAAACCAGCATCTGTTACTGGAACAGAGACCTCAGCCCAAGCTCAGGACAAGGAGGCCTCCCTGGGAGAGGG
GGCCTTTCTCCACCATCACCGCCTGTGTCTTCAGGGGCTGCTGGAGGGCAGCCCAAGCCAGGGGCCACCCC

6356/6881
FIGURE 5867C

GCCCCACCCACCCACCCACCCCTCTGAAATGTGAAAAGCCTGCACTCTTCCTGTGGGCTGCGCAGTGGGCTCG
GGGGTTGGGGGTGCCGGGGCGATGCTTCCACCCTGGACTGAGTGTTGCGGGCAGCCTGCTCGGCTGTATGTTTC
TCGCACGCTCACCCGCTTCAGTGCGGCTCTGTCCCTGCTGCCGCCCTCCAGTCCTGAGGGAGGGGCTTGCCCCACC
TTCTACATTCCAATTTTTATATCTTTGAATTATGTGATTAGATATTAATTTAATGAT

6357/6881
FIGURE 5868

MSSSPSRSAADIYIREYFHSVSGGHPEATPLRVMTDRPLSQTDPVTLQYCCLTDDRQAFRPPTRAELARHRVV
VTTTSQARELRVPVGFFSHILIDEAAQMLECEALTPLAYASHGTRLVLAGDHMQVTPRFLSVARARAAEHTLLHR
LFLCYQQETHEVARQSRLVFHENYRCTDAIVSFISRHFYVAKGNPIHARGKVPPHPRHYPLMFCHVAGSPDRDMS
MASWLNLAIEIAQVVEKVQEAYNTWPSCWGGREQRCICVVSHGAQVSALRQELRRRDLGQVSVGSFEILPGRQFRV
VVLSTVHTCQSLLSPGALAPEFFTDARVLNTVLTRAQSQLVVVGDAVALCSFGACGKLWESFIRECVERHSVCPE
GLSMEQVEQGVAAQRRRWPPRGTOAGAAGNWEAAPEFVGDLAEEQAAVVTAMVKAEPGDEALSPASRDITATTAQT
EAAAAPAGDAVKEDVVPGACAAGAAAAAGVESTAEADAEDFWPDGELNADDAILRELLDESQKVMVTVGEDGL
LDTVARPESLQQARLYENLPPAALRKLHLHAEPERYRHCSFVPETFERASAIPLDDASSGPIQVRGRLDGMAFAG
DEVLVQLLSGDKAPEGRRLRGRVLGVLKRKRHELAFVCRMDTWDPRIMVPINGSVTKIFVAELKDPSQVPIYSLRK
GRLQVRGLERLTAEARHSRLFWQIVLWRQGFYYPGLGIVREVLPFASTWEQGLRILGLEYSLRVPPSDQATITKV
LQKYHTELGRVAGRREDCRFLTFTVDPQGACNLDDALSVRDLGPRCEVAVHITDVASFVPRDGVLDVEARRQGA
AFYAPGREPVMPASPASLCQDVLSSLPGDRDLAISLFLTMEKASGQLKSLRFAPSVVQSDRQLSYEEAAEVIROHP
GAGRELPARLDSVDACVVAACYFSRLLRRHRLRSDCFYEQPDEDGTLGFRAAHIMKEYMIQFNRLVAEFLVGSE
CTRVTPLRWQPAPRSQQLKALCEKHGDRVPLSLHLGHHLHGGGGSPDTRLHLLASLWKQVQFAARTQDYEQMV
DLVTTDDMHFFLAPAGRDLRKALERSAFGRGCARGHQQQGGHYSQVDWYTWATSPIRRYLDVVLQRQILLALGHG
GSAYSARDIDGLCQAFSLQHALAQSYQRRARSLLHVLQKAPLDKLGFFVDVEAGSRCFRLFLPSNRETLPDPC
PVPYGSILQLAEHPHALAGRPGLRLLWRRRVYSAQSSPPLPLPGTVPDPHTLAVETALWKQLLELVELQRWPEAA
ALIQEKGEASQRRELQVQVRSHCGHFLEVARELGSGDTLQVQLGTSLSLQHGLVPSQLWTVAPGFSLCLEHVERP
GDCFSGRVYRAPRDYRDVDEYACVWEPFCALESATGAVAENDSVTLQHLSVSWEASRTPQGQLQGAFLRLEAAFL
EENCADINFSCCYLCIRLEGLPAPTASPRPGPSSSLGPGLNVDPGTYTWVAHGQTQDWDQERRADRQEAPRRVHLF
VHHMGMEKVPEEVLRPGTLFTVELLPKQLPDLRKEEAARGLEEASPLVTSIALGRPVPQPLCRVIPSRFLERQTY
NIPGGRHKLNPSONVAVREALEKPFTVIQPPGTGKTIVGLHIVFWFHKSNEQVQPGGPPRGEKRLGGPCILYC
GPSNKSVDVLAGLLLRMELEKPLRVYSEQAEASEFPVPRVGSRKLLRKSPREGRPNQSLRSITLHHRIRQAPNPY
SSEIKAFDTRLQRGELFSREDLVWYKKVLWEARKFELDRHEVILCTCSAASASLKILDVRQILVDEAGMATEPE
TLIPLVQFPQAEKVVLGDHKLRLPVVKNERLQNLGLDRSLFERYHEDAHMLDTQYRMHEGICAFPSVAFYKSKL
KTWQGLRRPPSVLGHAGKESCPVIFGHVQGHESLLVSTDEGNENSKANLEEVAVRITKQLTLGRTVEPDIA
VLTPYNAQASEISKALRREGIAGVAVSSITKSQGESEWRYVLVSTVRTCAKSDLDQRPTKSWLKKFLGFVVDPNQV
NVAVTRAQEGLCCLIGDHLRLCCPLWRSLLDFCEAQQTLPVAGQVRVCRRPTMPS

6358/6881
FIGURE 5869

ATGGACGAGGAGAGCCTGGAGTCGGCCTTGACAGACCTACCGTGCGCAGCTGCAGCAGGTGGAGCTGGCCTTGGGC
GCCGGCCTGGATTTCGTCTGAGCAGGCTGACCTGCGCCAGCTGCAGGGGGACCTGAAGGAGCTCATCGAGCTCACC
GAGGCCAGCCTGGTGTCTGTCTAGGAAGAGCAGCTTGTTGGCCGCGCTGGACGAAGAGCGCCCCGGGCCGCCAGGAA
GATGCTGAGTACCAGGCTTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCACCAGCAGCGGCCCGTGGGTCCGGA
TCAGAGACCGTTTCTAAAGCAGAGGCGGGGCCAGAATCTGCGGCAGGTGGGCAGGAGGAGGAAGAGGGAGAGGAC
GAGGAAGAGCTGAGTGGGACAAAGGTGAGCGCGCCCTACTACAGCTCCTGGGGCACTCTGGAGTATCACAACGCC
ATGGTGGTGGGAACGGAAGAGGCGGAGGATGGCTCGGCGGGTGTCCGTGTGCTTTACCTGTACCCCACTCACAAG
TCTCTGAAGCCGTGCCCCGTCTTCCTGGAGGGAAAGTGCCGCTTTAAGGAGAACTGCAGGTTCTCCCATGGGCAG
GTGGTCTCTCTGGATGAGCTGCGCCCCCTTCAGGACCCAGACCTGAGCTCCCTGCAGGCCGGCTCTGCGTGTCTG
GCCAAGCACCAGGATGGCCTCTGGCACGCAGCACGCATCACCGATGTGGACAACGGCTACTACACAGTCAAGTTT
GACTCGCTGCTGCTGAGGGAGGCCGTGGTGGAGGGGGACGGCATCTGCCCCCACTGCGCACAGAGGCCACAGAG
TCCGACTCAGACAGCGACGGTACGGGTGACTCCAGCTATGCCAGAGTGGTGGGGTCAGATGCTGTGGACTCTGGG
ACCTGCAGCTCTGCCTTTGCTGGCTGGGAGGTGCACACGCGAGGTATAGGCTCCAGACTCCTCACCAAGATGGGC
TATGAGTTTGGCAAGGGTTTGGGCCGACACGCGGAAGGCCGGGTGGAGCCCATCCATGCTGTGGTGTGCTCGA
GGGAAGTCGCTGGACCAGTGTGTGGAGACCCTGCAGAAGCAGACCAGGGTTGGCAAGGCTGGCACCACAAGCCC
CCCAGGTGCCGGGGAAGAGGGGCCAGGCCTGGGGGCCGCCAGCTCCTCGGAATGTGTTTGACTTCCTCAATGAA
AAGCTGCAAGGTCAGGCTCCTGGGGCCCTAGAAGCCGGGGCGCCCCAGCGGGGAGGAGGAGCAAGGACATGTAC
CATGCCAGCAAGAGTGCCAAGCGGGCCCTGAGCCTGCGGCTCTTCCAGACTGAGGAGAAAGATCGAGCGAAGCCAG
CGGGACATCAGGAGCATCCAGGAGGCTCTCGCCCGCAACGCTGGCCGGCATAGCGTGGCGTCAGCCCAGCTGCAG
GAGAAGCTGGCAGGAGCCCAGCGCCAGCTGGGGCAGCTCCGGGCTCAGGAAGCCGGCCTGCAGCAGGAGCAGAGG
AAGGCAGACACCCACAAGAAGATGACTGAGTTCTAG

6359/6881
FIGURE 5870

MDEESLESALQTYRAQLQQVELALGAGLDSSEQADLRQLQGD LKELIELTEASLVSVRKSSLLAALDEERPGRQE
DAEYQAFREAI TEAVEAPAAARGSGSETVPKAEAGPESAAGGQEEEEGEDEEELSGTKVSAPYYSSWGTLEYHNA
MVGTEEAEDGSAGVRVLYLYPTHKSLKPCPFFLEGKCRFKENCRFSHGQVVS LDEL RPFQDPDLSSLQAGSACL
AKHQDGLWHAARITDVDNGYYTVKFDSL LREAVVEGDGILPPLRTEATESDSDSDGTGDSSYARVVGSDAVDSG
TCSSAFAGWEVHTRGIGSRLLTKMGYEF GKGLGRHAEGRVEPIHAVVLPRGKSLDQCVETLQKQTRVGKAGTNKP
PRCRGRGARPGGRPAPRNVDFLNEKLQGQAPGALEAGAAPAGRRSKDMYHASKSAKRALSLRLFQTEEKIERTQ
RDIRSIQEALARNAGRHSVASAQLQEKLAGAQRQLGQLRAQEAGLQQEQRKADTHKKMTEF

6360/6881
FIGURE 5871A

CGCTGCCGGTGCCGCACCCGCGCCCTCTGCCGCCGCCGCCGCCGCCGCCGGGTCTCCAGGCTGAGGAGTGCGT
CGGCCGCTGCCAGCAGCGCCGCGAATCGGGGAGCGGAGCCGCGGAGCCGGCGGGAGGGCGGGCGGGCGGGCGGA
CGGGCAGAATAGCCTAACATGGCAGACCAGAGACAGCGCTCACTGTCTACCTCTGGGGAGTCATTGTACCACGTC
CTTGGGTTGGACAAGAACGCAACCTCAGATGACATTAAAAAGTCCTATCGGAAGCTTGCCCTGAAATATCACCCC
GACAAGAACCCGACAACCCGGAGGCCGCGGACAAGTTTAAGGAGATCAACAACGCGCAGCCATCCTCACGGAC
GCCACAAAAGGAACATCTACGACAAGTACGGCTCGCTGGGTCTCTACGTGGCCGAGCAGTTTGGGGAAGAGAAC
GTGAACACCTACTTCGTGCTGTCCAGCTGGTGGGCCAAGGCCCTGTTTGTCTTCTGCGGCCTCCTCACGTGCTGC
TACTGCTGCTGCTGTCTGTGCTGCTGCTTCACTGCTGCTGCGGGAAGTGTAAAGCCAAGGCGCCTGAAGGCGAG
GAGACGGAGTTCTACGTGTCCCCGAGGATCTGGAGGCACAGCTGCAGTCTGACGAGAGGGAGGCCACAGACACG
CCGATCGTCATACAGCCGGCATCCGCCACCGAGACCACCAGCTCACAGCCGACTCCCACCCAGCTACCACACT
GACGGGTTCAACTAAATCCAGGAGGAGCTGTGGTCAGAGGAGGAGCCGGCGCCTGGCCACGCCAACCTTAGAATC
ATGAACTGTAGTCACAGAGATGGGAAGGCAGCCTCCTGCCTGCCCTGGCCTTGCTGGGGCCCCCTCCTGCCTCCAC
GCCCCACCGAGCGTCGACCCCTTGACCCACGAAGTGCCTAGCATGCAGTATTTAAAGCAGTGTAGCTACGGTCTTCT
GTTTTTTTCCCTTTTTTAATAGCATGTATGGGGTTCTGTTCCATGTCTGTGTTGTGGACATTCCGCGGCATGACC
GCGTGAAGTGCACGGTGGAGCTGCCTCAGGGCTGTGCGTTCAGGTTGGTCCAGTGAGGGGTGACTGCAGCCGGTCA
GGTGGGCGAGGAGAAGGGGGGCTGCCCTTTCTACCTGTGCTTGAGGGGCCGAGGCAGGTGCTGCCTGGCAGA
GCTGTGTTACCGTCTTGGCCTCGGGGTCTGGTCCACACTCTGTGCTCCAGCCTTGAGGCTGCAGTAGGACTCTG
ATCTCACCTGCCAGAAGAGAGGCGGGGCCGCTCCTCCTGGCGTCACCGCGCTCACTGTCACTTCTTGGTGTCTG
TGCTGGGCATGGTTGGCTTGGGGGTCTGTGTTTTCTGGGCCCTTGTTGGCAGGGTTTCTCCCGTGGGAGAAATTGG
TGTGGAAGCATAGGAGGCCCTTCCGAGGTTGACACCGTGTCTCCGCGGTGTTTTCTCGCCTGGTCGTCTCGTC
GTGTGGACGCTGCCGTTCTGGTTCTCGGAGGTGTGTCTTCGCCGTGTTGGGGTTATTTGTCTGTGTTCTGCAC
TTTTCCCGGGCTCTGAGCTGGATTGATGGGGCCAGTCTCCCCCTCCCATCTTGAGGTCGTTCTCCACATTCTT
CCAGCACACCTGTCTTTCCATAGCCCTTTTTGGACCTTTAGAACCACAGATGATAGGACCAGCCCAATGAGCCA
CAGTCAGAGAGTAGATTGTGCATGTGTGAGCACCAGCTACTGGGGACGGGGCTCTCCACGACCCCTCCTCCT
GTGTTTGCCAGAGCTCCCATCTGCCCCACTCGCCTTTGCCCGTCATCGATGATTACAGGCAGAGCCAGATTCTGTT
AGGTCCCTGGAGGAAGGACTGACTGGACCAGAGGGACCTCTGGCTCAGGAGGGTTGGGTCCCTGGGAGGCCGGC
AGCCAGGCCACAGAATCCACACGTGGACCATTGTGGGTCCCTGGGAGGCCGGCAGCCAGGCCACGGAATCCACAC
GTGGACCATTGTGGGTCCCTTGGGAGGCCAGCAGCCAGACTACGGAATCCACATGTGGACCATGGGAAGTCAGTC
TCTTGCGTGTCTAGACCTTGTGGGTGGCGCCCTGCATAGGGGAGCAGGGGGAACGGGTCTGATGTCCCTGTGCT
GGCTGAGGGCTCAGAGCTGCCCCACTCCGTAGCTCATGGGATGTGCTGGGCCTGCCTTTGGCGCCATGCTGCAG
ACTCCAGTGGGCCTGGTTTCTGCAGAATGTCCATGGTGGCCGCTGCAGAGTTGCAGAGGTCCCTGTAGAGATAAA
GCTGAGGAGGAGGCTGTGTGTGATGGCTCTGGCTCGGACCAACCAGATGAGCCTCCTGAAGCCCCCTTCCCTGCC
TGCTGTGACCCGTGGCCCCAGCTCACTCATTGCCCTCAGCAGCCACCCGAGGCTGTGCAGAAAGGTAGGTTCA
GGTTGACCAGGAAGCTGCCAAAAGGGACATGGATATGAGGATACATCTGGACGTGCTTAGGAACAGGGTGCTGGT
TGAGGGCCCCCAGCTGACCCCTACTGCAGATCCGCATGTGGACCATGAGCCGGCTGCCAGCACTAGGTCTTGGGC
AGCTTTGTTTGTCCACTTTTCTTTGTTTCTTCTCACTAAAATGATCACGAAGACCTTTGACAAGAGGAGAGATA
TGCACTGTGATATTAAATTAGAAATAATTTATCAAAATCAGACCTCTCCTAAAAGAATAAGAAATTCATTGTTTG
GCCCATCCTGAAAGGTGAGGTGGCGAGACAGTGGGGTGCCCTCCGTGCCGCTTCGTGCAGCAGCAAGTTCAGCCTG
AGATGCTGGCTGTACTCAGCCTTTGCAATTTTTGTAGATGTAGCTTAGGACGTGAGTTATTTTTCCGCAGACTGG
CCAAGAGCCAGGTTCTAAGCTTGGACCTAAGGTAGAAAGCTGCCCATCGGGGGCCCTAGCTCAGCCCCACCAGGC
CCTCTGTTGGGCCTGCACACAGCTCTGTGGCTAGAACACTCCAAGGCCCTTCGGTACCCATCAGAGTGGGCCCCCT
TGCCAGGTGGCTTTTTAGTTACAGAGTCCAGTGGACCATTTTGTAGAACCATGCAGCTCCCTGCGGAAGGTGGGG
TAGGGTGGGAAAGAGGAGCAGGTCTGGAGGTTTGTGGAACCCAGTCCCCTGCAGAATCTGTAAAACCTAATAAAT
CATGGTTGTGGCCATTCTCACGGTGGTGATTGTGATTAGACGACCCCGGGAAGCCAGACACTCGGGGCCTGGA
GTTCTTCCCCCTGCCTGACCTAGAAGCAGAACCCTTTTTCAGCGCTCTGCCCTGTTGGCTTTAAGGCTTTGTCTTA
ATTTAAGGAAAAGATCCTCCCGGGTTTTATTTCTCTCTTTCTTGAGTGGACTGTTTCCCTATAATTAAAAGAGG
TGGTGAGTCTTGGGGCAGCTTCCGCGCCTCCCTGTCCACGTGCTAACAGATCAGGACGCCCCCAGCACCCCTGCC
TGCTTTTGCTGGTGGCAGTGACGGGACCCGACTCCTCACTCTCGGGCCGAGACAATGCTGTGAGCAAGTGTGG

6361/6881
FIGURE 5871B

CCATGGGCACAGAATGTCCCTTTGGACGCCGCTGCTGGGGGCTGCCAGGGGCCCTCTGGGGTCTGTGCTTTGAGGC
CCGTCCGGTTCACGAGGGGGTCCGGGCAGCACTGACTGCTTCCGACCTGCAGGAGGCGTAGGAGCGGGCCCTGCGG
GCCCTTTCACGGCAGCTGCTGCTGTATAGATTTGTCTCCACTCAGTGACGTGGGATTTTTTTGTCTTCCCTTTGG
CTTTATTTTAAACTGCTTTAGATATTACTGCTCAGTGTTTGTGAACCTTCTCTAGTTCTCTATGTTGTTAGTGCA
GCCAGCACCCAGTGGGGACCTACTAGAAAAAGGAAGTGGCATGCACACGTGCCCAGCAGGAAAAGCTTCGTCTTC
ACGTCGGCTGCTGCCATCCAGAAGAGGGCCCTGGAGCCTCACGCCGTCGAGGCTGCTCTCAGGCGTTCTGTTCCGG
GCGAGGCTTGTGCTGCAAGGAAGGGCACCAGCATGCAGGCTGCCACTGGAGGGTCCGGGTGCTGCGGGCAGAGTT
CAGCGCTTGTCCACCCTCCCTTAGCTCTGACTCAGTGCATCCTACTGTGGGGACATCTCGTGAGGGGACACGAAA
TGACTGATCTCACCCCTTCCAGTATTCAGAGCTGTGAACCCCTGTGGCGCAGGACTGGCCTGTGTCTGTTATTT
TGGTTGTAAATCATTCTCCTGTGGAATTGGCAAAAGCTACATTTTTACTGTCCCTTACCAGCAACAGTTTGCGTCG
TCACATGCTGTGAGTGTGGGCTGTGGTGTGTCCGTGTGTGTACATATGTGTATATGTATATATCACGCAGCAGGA
GTGTCAATTCATGCTGCTGTCCCTGGTGAAGTGACAAGTACAATTAAAGGTGGCTCTGAAATGGCCTCTGGTTTC
TTGGGAGTCGGGCAGGGACCTGCAGGAGGCTTCCAGCAGGTGCACAGAAGGAAGCGCTGAGCCCACTGTGTGC
AGAGGGTGTGTGCCCAGGGCACTGCCACGGCCCCCACCAGCATTGGCCTCTGCTCTGCAGGGTGGGGTGCCCATC
CTGGGGGCTGTGTGTGTCATGCTCACCTGACCCAGGTGTGTGTCCCGGTGTGAAATCGAGGAGGGGACTGGAAGCCC
TTCCCTGCCCTTGAACATGAAAGCTGATTTTCTGAGCAGCAGATACGGTCAGTGGCAAAGCTGCATCTGAAGGGC
GGCCTGGGAAGGGGCCCTGTGCTGGCCCCGGGTCCGCCCCAGAGGAGTCCACACAGCACCACTCCAGAAGGGGC
TGGGCCCCGGGTCTCTGCAGGCGGCACCTTTTGGTAGAGTTTGTTCCTGGAAAATGGGGAAAATGTTTCAAGCC
AGGTGAGGGGGGAAGTTAACACTGAAATATGTATTGTTTTTAAAAATCAAATGCACACGCATGGAAGCTGCTTGT
CCATGCACTGGTTTTGTCACTGGCGTCTTGAATCCGACCGTGTGGGGTGCAGGCGCTGTCAGACTCCGGCTGA
TCCTGGCTCGAGCACACACATCTAAGGGCCAGGCTGGTTCCGCATGGTGATCTCCGTCTTGTATGTCTGAATGTT
GGCCTAAAATAAAGATTACTGTTGTAAAAAT

6362/6881
FIGURE 5872

MADQRQRLSTSGESLYHVLGLDKNATSDDIKKSYRKLALKYHPDKNPDNPEAADKFKEINNAHAILTDATKRNI
YDKYGSGLGLYVAEQFGEENVNTYFVLSSWWAKALFVFCGLLTCCYCCCCCLCCCFNCCCGKCKPKAPEGEETEFYV
SPEDLEAQLQSDEREATDTPIVIQPASATETTQLTADSHPSYHTDGFN

6363/6881
FIGURE 5873

CTACGGAGTGCATCGGACGTGGAAGCCTAGAGTCTCTGCGTCTTTCCCTCTTCCGCTGCCTCATTCCCTTTCTTC
CTAGCCTTGGTCGTCGCCGCCACCATGAACAAGAAGAAGAAACCGTTCCCTAGGGATGCCCGCGCCCCCTCGGCTAC
GTGCCGTGGCTGGGCGGGGCGCCACTGGCTTCACCACGCGGTGACACATTGGGCGCCCGCTGATGCAAATGAC
CCTGTGGATGATCGCCATGCACCCCCAGGCAAGAGAACCCTTGGGGACCAGATGAAGAAAAATCAGGCTGCTGAC
GATGACGACGAGGATCTAAATGACACCAATTACGATGAGTTTAATGGCTATGCTGGGAGCCTCTTCTCAAGTGGA
CCCTACGAGAAAGATGATGAGGAAGCAGATGCTATCTATGCAGCCCTGGATAAAAGGATGGATGAAAGAAGAAAA
GAAAGACGGGAGCAAAGGGAGAAAGAAGAAATAGAGAAATATCGTATGGAACGCCCCAAAATCCAACAGCAGTTC
TCAGACCTCAAGAGGAAGTTGGCAGAAGTCACAGAAGAAGAGTGGCTGAGCATCCCCGAGGTTGGCGATGCCAGA
AATAAACGTGACGCGAACCCACGCTATGAGAAGCTGACCCCTGTTCTGACAGTTTCTTTGCCAAACATTTACAG
ACCGGAGAGAACCATACTCAGTGGATCCCCGACAACTCAATTTGGAGGTCTTAACACACCCTATCCAGGTGGA
CTAAACACTCCATACCGAGGTGGAATGACGCCAGGACTGATGACACCTGGCACAGGTGAGCTGGACATGAGGAAG
ATTGGCCAAGCGAGGAACACTCTGATGGACATGAGGCTGAGCCAGGTGTCTGACTCCGTGAGTGGACAGACCGTC
GTTGACCCCAAAGGCTACCTGACGGATTTAAATTCCATGATCCCGACACACGGAGGAGACATCAATGATATCAAG
AAGGCGCGACTGCTCCTCAAGTCTGTTCTGGGAGACGAACCCTCATCACCCGCCAGCCTGGATTGCATCAGCCCGC
CTGGAAGAAGTCACTGGGAAGCTACAAGTAGCTCGGAACCTTATCATGAAGGGGACGGAGATGTGCCCCAAGAGT
GAAGATGTCTGGCTGGAAGCAGCCAGGTTGCAGCCTGGGGACACAGCCAAGGCCGTGGTAGCCCCAAGCTGTCCGT
CATCTCCACAGTCTGTGAGGATTACATCAGAGCCGACAGCTGGAAACGGACATTTCGTGCAAAGAAGCGGGTT
CTTCGGAAGCCCTCGAGCATGTTCCAAACTCGGTTGCTTGTGGAAGCAGCCGTTGAGCTGGAAGAACCTGAA
GATGCTAGAATCATGCTGAGCCGAGCTGTGGAGTGTGCCCCACCAGCGTGGAGCTCTGGCTTGCTCTGGCAAGG
CTGGAGACCTATGAAAATGCCCGCAAGGTCTTGAACAAGGCGCGGAGAACATTCTACAGACCGACATATCTGG
ATCACGGCTGCTAAGCTGGAGGAAGCCAATGGGAACACGCAGATGGTGGAGAAGATCATCGACCGAGCCATCACC
TCGCTGCGGGCCAACGGTGTGGAGATCAACCGTGAGCAGTGGATCCAGGATGCCGAGGAATGTGACAGGGCTGGG
AGTGTGGCCACCTGCCAGGCCGTGATGCGTGCCGTGATTGGGATTGGGATTGAGGAGGAAGATCGGAAGCATACC
TGGATGGAGGATGCTGACAGTTGTGTAGCCACAATGCCCTGGAGTGTGCACGAGCCATCTACGCCTACGCCCTG
CAGGTGTTCCCCAGCAAGAAGAGTGTGTGGCTGCGCGCCGCGTACTTCGAGAAGAACCATGGCACTCGGGAGTCC
CTGGAAGCACTCCTGCAGAGGGCTGTGGCCCACTGCCCCAAAGCAGAGGTGCTGTGGCTCATGGGCGCCAAGTCC
AAGTGGCTGGCAGGGGATGTGCTGCGAGCAAGGAGCATCCTGGCCCTGGCCTTCCAGGCCAACCCCAACAGTGAG
GAGATCTGGCTGGCAGCCGTGAAGCTGGAGTCCGAGAATGATGAGTACGAGCGGGCCCCGAGGCTGCTGGCCAAG
GCGCGGAGCAGTGCCCCCACC GCCCGGGTGTTCATGAAGTCTGTGAAGCTGGAGTGGGTGCAAGACAACATCAGG
GCAGCCCAAGATCTGTGCGAGGAGGCCCTGCGGCACTATGAGGACTTCCCCAAGCTGTGGATGATGAAGGGGCAG
ATCGAGGAGCAGAAGGAGATGATGGAGAAGGCGCGGGAAGCCTATAACCAGGGGTGAAGAAGTGTCCCCACTCC
ACACCCCTGTGGCTTTTGTCTCTCGGCTGGAGGAGAAGATTGGGCAGCTTACTCGAGCACGGGCCATTTTGGA
AAGTCTCGTCTGAAGAACCCAAAGAACCCTGGGCTGTGGTTGGAGTCCGTGCGGCTGGAGTACCGTGCGGGGCTG
AAGAACATCGCAAATACACTCATGGCCAAGGCGCTGCAGGAGTGCCCCAACTCCGGTATCCTGTGGTCTGAGGCC
ATCTTCCTCGAGGCAAGGCCCCAGAGGAGGACCAAGAGCGTGGATGCCCTGAAGAAGTGTGAGCATGACCCCAT
GTGCTCCTGGCCGTGGCCAAGCTGTTTTGGAGTCAGCGGAAGATCACCAAGGCCAGGGAGTGGTTCCACCGCACT
GTGAAGATTGACTCGGACCTGGGGGATGCCTGGGCCTTCTTCTACAAGTTTGAGCTGCAGCATGGCACTGAGGAG
CAGCAGGAGGAGGTGAGGAAGCGCTGTGAGAGTGCAGAGCCTCGGCATGGGGAGCTGTGGTGCGCCGTGTCCAAG
GACATCGCCAACCTGGCAGAAGAAGATCGGGGACATCCTTAGGCTGGTGGCCGGCCGCATCAAGAACACCTTCTGA
TTGAGCGGTTGCCATGGCCGGTCTCCGTGGGGCAGGGTTGGGCCGCATGTGGAAGGGCTCTGAGCTGTGTCTCTC
TTCATTAAAAGTTTTTATGTCTCGTGTCAAAAAAAAAAAAAAAAAAAGAAAAAAAAA

6364/6881
FIGURE 5874

MNKKKKPFLGMPAPLGYVPWLGRGATGFTTTRSDIGPARDANDPVDDRHAPP GKRTVGDQMKNQAADDDDEDLND
TNYDEFNGYAGSLFSSGPYEKDDEEADAIYAALDKRMDERRKERREQREKEEIEKYRMERP KIQQQFSDLKRKLA
EVTEEEWLSIPEVGDARNKRQRNPRYEKLTVPVDSFFAKHLQTGENHTSVDP RQTQFGGLNTPYPGGLNTPYRGG
MTPGLMTPGTGELDMRKIGQARNTLMDMRLSQVSDSVSGQTVVDPKGYLTDLNSMIP THGGDINDIKKARLLLKS
VRETNPHHPPAWIASARLEEV TGKLQVARNLIMKGTEMCPKSE DVWLEAARLQPGDTAKAVVAQAVRHLPQSVRI
YIRAAELETDIRAKKRVLRKALEHVPNSVRLWKA AVELEEPEDARIMLSRAVECCPTSVELWLALARLETYENAR
KVLNKARENIP TDRHIWITA AKLEEANGNTQMVEKI IDRAITSLRANGVEINREQW IQDAEECDRAGSVATCQAV
MRAVIGIGIEEEDRKHTW MEDADSCVAHNALECARAIYAYALQVFPSKKSVWLRAAYFEKNHGTRESLEALLQRA
VAHCPKAEVLWLMGAKSKWLAGDVPAARSILALAFQANPNSEEIWLA AVKLESENDEYERARRLLAKARSSAPTA
RVFMKSVKLEWVQDNIRAAQDLCEEALRHYEDFPKLWMMKGQIEEQKEMMEKAREAYNQGLKKCPHSTPLWLLLS
RLEEKIGQLTRARAILEKSRLKNPNPGLWLESVRLEYRAGLKNIANTLMAKALQECPN SGILWSEAFLEARPQ
RRTKSVDALKKCEHDPHVLLAVAKLFWSQRKITKAREWFHRTVKIDSDLGDAWAFFYKFELQHGT EEQQEEVRKR
CESAEPRHGELWCAVSKDIANWQKKIGDILRLVAGRIKNTF

6365/6881
FIGURE 5875

AAGTCCCGGCCCTGGCTTTGGGGAAGTGCCGCCGAGGCGCCTGCGCACTGCGCCCCGCGCCCCCTCCCCGACT
GTCGGGCGGACCTTGGAGCGCGCGGGCCGGCGGCGCGAGTGGCTCGGGAGCGCGGCTGACCCCCAGGCTGT
GGTGAGGGTCTGAGAGCTGGTACCACGGAGCCTGGGCAACCTCCTCCGCCCACCCATGCCACCCCGCATGAGGC
TGAGAAGCAGATCACAGGGCCAGAGGAGGCGGACCGCCCCCTTCAATGTCCAGTCATGATACAGCCTCTCCAGC
GGCCCCAGCCGCAACCCCTGCTGCCTGTGCTGGTGCTGCTGCTGTAGCTGCTCCTGGAACCAAGAGCGGCGGCG
CGCGTGGCAGGCCTCCCGGGAGAGCAAGCTGCAGCCCCCTCCCCAGCTGTGAAGTATGTGCCACGCCAAGTCCTGA
GGAGGTGCAGAGCTGGGCGCAGTCTTTTGACAAGCTGATGCACAGCCCAGCGGGACGCAGCGTGTTCGGGCGTT
CCTGCGGACAGAGTACAGCGAGGAGAACATGCTCTTCTGGTTGGCCTGCGAGGAGCTGAAGGCCGAGGCCAACCA
GCATGTGGTAGACGAGAAGGCGAGGCTCATCTACGAGGACTACGTATCCATCCTGTCCCCAAGGAGGTGAGCCT
GGACTCCCGTGTGCGGGAGGGCATCAACAAGAAGATGCAGGAGCCGTCCGCACACACGTTTCGACGACGCGCAGCT
GCAGATCTACACGCTCATGCACCGGGAATCCTACCCCCGCTTCCTCAGCTCTCCACCTACCGTGCCCTGCTGCT
GCAGGGGCCATCACAGTCCTCCTCCGAGGCCTAGGCCGCCCCAGCAGCACAGACCCGCGCCTCCTACGGCCG
ACTCTGGGTTCCCTTCAGGTGTTGTTGTCGGCAGGGCTGTGAGGCGACATGCCTGGCCGGCTGGGGTCCCCACCC
GCGGAGACGGTCCTAGACCCAGTGGGGAGTGCTGTGTCTCCTGGGTCTGCCCACCCGTGGCCAAGCAGGAATCC
AGGTGCAGGGCGGGCCTCCAGGTGCAGGGCGGGCCAGAAGCCCCCTCATCGGCCCGCAGCTGGCTGGCCAGTGC
TCCTGGCTGGGGGCTCTTGCGTGGTGAGAGTAGGGGTCCCCCAGGAGCCATGCTGGACCCATGAGCCTCGCTGG
GGCCTCCTCCCCAGGCAGCCAATGGGCCCCAGACAAGCCTTTGGTGGGGAACAGAACCTCCGCATCGTGTAGTTT
TGTGACATAAGGAGACCTCCTACTTGAGCTGTCTGTACCCCAAGATCAAACACAGAACCTCAGAACCAGATTTAG
GACCTCAGAATCCTGCACTCAAGGTGGCAGGACCCAATTTCTGTTTTATATGTTTCATGAACCTTTAAACCTGGAAA
CATGTCCTTACTAGGTGTTTTATCAAAAAAAGTTTTATATTTATCTCTATCCCTAACCCCCCAAAATAGGAT
GTCTTATTATTGAAGATATTTTTAAAGC

6366/6881
FIGURE 5876

GGAAAACCGTGTACTATTAGCCATGGTCAACCCACCGTGTCTTCGACATTGCCGTCGACGGCGAGCCCTTGGG
CCGCGTCTCCTTTGAGCTGTTTGCAGACAAGGTCCCAAAGACAGCAGGCTTTCACAGAATTATTCCAGGGTTTAT
GTGTCAGGGTGGTGACTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAAGATGA
GAACTTCATCCTAAAGCATACAGGTCCTGGCATCTTGTCCATGGCAAATGCTGGACCCAACACAAATGGATCCCA
GTTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGTTTGGCAAAGTGAAAGAAGGCAT
GAATATTGTGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACTG
TGGACAACTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGGTCATTCTTCTGTAGCTCAGGAGAGCAC
CCCTCCACCCCATTTGCTCGCAGTATCCTAGAATCTTTGTGCTCTCGCTGCAGTTCCTTTGGGTTCCATGTTTT
CCTTGTTCCCTCCCATGCCTAGCTGGAT

6367/6881
FIGURE 5877

GCTCGATGGTCGAGGCCATCTCCTGGTCCGCCTGGCGGCCATCGTGGCTAAACAGAACAAGTTGAAGTACCTGGG
TTTCCTCCGCAAGCGGATGAACACCCACCTTTCCCGAGGTCCCTACCACTTCCGGGCCCCCAGCCGCATCTTCT
GGCGGACCGTGCGAGGTATGCCGCCCCACAAGACCAAGCGAGGCCAGGCTTCTCTGGACCGCCTCAAGGTGTTTG
ACCGCATCCCACCGCCCTACGACAAGAAAAAGCGGATGGTGTTTCCTGCTCCCTCAAGGTTGTGCGTCTGAAGCCT
ACAAGAAAGTTTGCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTG
GAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCC
GAGAAGAACATGGAGAAGAAAATTGACAAATACACAGAGGTCCTCAAGACCCACAGACTCCTGGTCTGAGCCCAA
TAAAGACTGTTAATTCCT

6368/6881
FIGURE 5878

GCATCCCACCGCCCTACGACAAGAAAAAGCGGATGGTGTTCCTGCTCCCTCAAGGTTGTGCGTCTGAAGCCTACA
AGAAAGTTTGCCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAG
GAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAG
AAGAACATGGAGAAGAAATGAGCCCAATAAAGACTGTTAATTCCTCATGCGTGGCCTGCCCTTCCTCCATCGTCG
CCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGCGCCACAGGCAGCCTCGGACACAGGAAGCTGGGAG
CAAGGAAAGGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAAGTGTGCAGGTGTCATTTATC
TATGACCAATAGGAAGAGCAACCAGTTACTATTAGTGAAAGGGAGCCAGAAGACTGATTGGAGGGCCCTATCTTG
TGAGCGGGGCGTCTGTTGGACTTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGCAAGGACTTGGGGAC
AGTATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGCACAACCAAGGGGTT
ACAGGCATCGCCCGTGCTCACCTGTATTTTGTAATCAGAAATAAATTGCTTTTAAAGAAAAAATAAAA

6369/6881
FIGURE 5879

ACGAGGGGAAGAAAGGAGTTGGGGCAAAACAGGAGGCGTTTCCCTACCCGCATACATCCCCGTCCCCGAGACACC
CAATCCCCCACCACCCAGCCTGCCCCGCGCTCCCGCCCCCAGCTCCTCGCCCTGGGGACAGCTGGCAGCCCCGCG
CGGACCAGACACAAAGCCGATCAATCCCGGAGGCGTGGGGGCGGAGGGACGACCCGCGGGGGCTTTCCCGGGCGC
TGCTCTCCTCCTGCTGCCCCCTCGCTAGGACCCGGCGGACGCTCGTCTGGTTTTACGCCCTCTAGCCCCTACC
CCCACACCCCCAAAACAGAACAGACCCCCATCCCTGGGCTGGAGGACCCGCCTCTTGGCAGCCAGCTGAGAAGGC
GCCCCGGGGAGGGGGAAACTGACATCCCATCTAGAGCCGTCCCTCCTCTTCCCTCCCCCTCCCGACTCTCTGCTCCT
TTCCCGCCCCAGAAGTTCAAGGGCCCCCGGCTCCTGCGCTCCTGCCGCCGGGACCCTCGACCTCCTCAGAGCAG
CCGGCTGCCGCCCGGGGAAGATGCGGAGGAGCGCCACCGCTCCTCCTGCTGCTGCTGCGCTACCTGGTGG
TCGCCCTGGGCTATCATAAGGCCTATGGGTTTTCTGCCCAAAAGACCAACAAGTAGTCACAGCAGTAGAGTACC
AAGAGGCTATTTTAGCCTGCAAAACCCCAAAGAAGACTGTTTCCTCCAGATTAGAGTGGAAGAACTGGGTGCGA
GTGTCTCCTTTGTCTACTATCAACAGACTCTTCAAGGTGATTTTAAAAATCGAGCTGAGATGATAGATTTCAATA
TCCGGATCAAAAATGTGACAAGAAGTGATGCGGGGAAATATCGTTGTGAAGTTAGTGCCCCATCTGAGCAAGGCC
AAAACCTGGAAGAGGATACAGTCACTCTGGAAGTATTAGTGGCTCCAGCAGTTCCATCATGTGAAGTACCCTCTT
CTGCTCTGAGTGGAAGTGTGGTAGAGCTACGATGTCAAGACAAAGAAGGGAATCCAGCTCCTGAATACACATGGT
TTAAGGATGGCATCCGTTTGTCTAGAAAATCCAGACTTGGCTCCCCAAAGCACCAACAGCTCATAACAATGAATA
CAAAAACCTGGAAGTCTGCAATTTAATACTGTTTCCAACTGGACACTGGAGAATATTCTGTGAAGCCCGCAATT
CTGTTGGATATCGCAGGTGTCCTGGGAAACGAATGCAAGTAGATGATCTCAACATAAGTGGCATCATAGCAGCCG
TAGTAGTTGTGGCCTTAGTGATTTCCGTTTGTGGCCTTGGTGTATGCTATGCTCAGAGGAAAGGCTACTTTTCAA
AAGAAACCTCCTTCCAGAAGAGTAATTCTTCATCTAAAGCCACGACAATGAGTGAAAATGATTTCAAGCACACAA
AATCCTTTATAATTAAAGACTCCACTTTAGAGATACACCAAAGCCACCGTTGTTACACAAGTTATTAAACTATT
ATAAACTCTGCTTTGTCCGACATTTGCAAAGAGGTACACGAGGAAATGGAATTGGTATTTTATTTTAAATTTTCA
TGACTACTAACTCACCTGAAGTTGCTATTTTAAACAAATAGTTCTGTGCGACACCTAAAATATAATCTGGCTTCTT
GTGTCTGGACTAAGTTAAAAGAATTAAATACTTTGTAATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6370/6881
FIGURE 5880

MARRSRHRLLLLLLLRYLVVALGYHKAYGFSAPKDQQVVTAVEYQEAILACKTPKKTVSSRLEWKKLGRSVSFVYY
QOTLQGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQGQNL EEDTVTLEVLVAPAVPSCEVPSSALSGTV
VELRCQDKEGNPAPEYTWFKDGIRLLENPRLGSQSTNSSYTMNTKTGTLQFNTVSKLDTGEYSCEARNSVGYRRC
PGKRMQVDDLNI SGIIAAVVVVALVISVCGLGV CYAQRKGYFSKETS FQKSNSSSKATTMSE NDFKHTKSFII

6371/6881
FIGURE 5881

AGTTTCCTCGGCAGCGGTAGGCGAGAGCACGCGGAGGAGCGTGCGCGGGGGCCCCGGGAGACGGCGGCGGTGGCG
GCGCGGGCAGAGCAAGGACGCGGCGGATCCCACTCGCACAGCAGCGCACTCGGTGCCCCGCGCAGGGTCGCGATG

CTGCCCCGTTTGGCACTGCTCCTGCTGGCCGCCTGGACGGCTCGGGCGCTGGAGGTACCCACTGATGGTAATGCT
GGCCTGCTGGCTGAACCCAGATTGCCATGTTCTGTGGCAGACTGAACATGCACATGAATGTCCAGAATGGGAAG
TGGGATTCAGATCCATCAGGGACCAAAACCTGCATTGATACCAAGGAAGGCATCCTGCAGTATTGCCAAGAAGTC
TACCCTGAAGTGCAGATACCAATGTGGTAGAAGCCAACCAACCAGTGACCATCCAGAAGTGGTGCAAGCGGGGC
CGCAAGCAGTGCAAGACCCATCCCCACTTTGTGATTCCCTACCGCTGCTTAGTTGGTGAGTTTGTAAAGTGATGCC
CTTCTCGTTCTTGACAAGTGCAAATTCTTACACCAGGAGAGGATGGATGTTTGCGAAACTCATCTTCACTGGCAC
ACCGTCGCCAAAGAGACATGCAGTGAGAAGAGTACCAACTTGCATGACTACGGCATGTTGCTGCCCTGCGGAATT
GACAAGTTCCGAGGGGTAGAGTTTGTGTGTTGCCACTGGCTGAAGAAAGTGACAATGTGGATTCTGCTGATGCG
GAGGAGGATGACTCGGATGTCTGGTGGGGCGGAGCAGACACAGACTATGCAGATGGGAGTGAAGACAAAGTAGTA
GAAGTAGCAGAGGAGGAAGAAGTGGCTGAGGTGGAAGAAGAAGCCGATGATGACGAGGACGATGAGGATGGT
GATGAGGTAGAGGAAGAGGCTGAGGAACCCTACGAAGAAGCCACAGAGAGAACCACCAGCATTGCCACCACCACC
ACCACCACCACAGAGTCTGTGGAAGAGGTGGTTTCGAGAGGTGTGCTCTGAACAAGCCGAGACGGGGCCGTGCCGA
GCAATGATCTCCCGCTGGTACTTTGATGTGACTGAAGGGAAGTGTGCCCCATTCTTTTACGGCGGATGTGGCGGC
AACCAGGAACAACCTTTGACACAGAAGAGTACTGCATGGCCGTGTGTGGCAGCGCCATGTCCCAAAGTTTACTCAAG
ACTACCCAGGAACCTCTTGCCCGAGATCCTGTTAAACTTCTTACAACAGCAGCCAGTACCCCTGATGCCGTTGAC
AAGTATCTCGAGACACCTGGGGATGAGAATGAACATGCCCATTTCCAGAAAGCCAAAGAGAGGCTTGAGGCCAAG
CACCGAGAGAGAATGTCCAGGTCATGAGAGAATGGGAAGAGGCAGAACGTCAAGCAAAGAACTTGCCTAAAGCT
GATAAGAAGGCAGTTATCCAGCATTTCAGGAGAAAGTGAATCTTTGGAACAGGAAGCAGCCAACGAGAGACAG
CAGCTGGTGGAGACACACATGGCCAGAGTGAAGCCATGCTCAATGACCGCCGCCGCTGGCCCTGGAGAACTAC
ATCACCGCTCTGCAGGCTGTTCTCTCGGCCCTCGTCACGTGTTCAATATGCTAAAGAAGTATGTCCGCGCAGAA
CAGAAGGACAGACAGCACACCCTAAAGCATTTCGAGCATGTGCGCATGGTGGATCCCAAGAAAGCCGCTCAGATC
CGGTCCCAGGTTATGACACACCTCCGTGTGATTTATGAGCGCATGAATCAGTCTCTCTCCCTGCTCTACAACGTG
CCTGCAGTGGCCGAGGAGATTGAGGATGAAGTTGATGAGCTGCTTCAGAAAGAGCAAACTATTGAGATGACGTC
TTGGCCAACATGATTAGTGAACCAAGGATCAGTTACGGAACGATGCTCTCATGCCATCTTTGACCGAAACGAAA
ACCACCGTGGAGCTCCTTCCCGTGAATGGAGAGTTCAGCCTGGACGATCTCCAGCCGTGGCATTCTTTTGGGGCT
GACTCTGTGCCAGCCAACACAGAAAACGAAGTTGAGCCTGTTGATGCCCCGCCCTGCTGCCGACCGAGGACTGACC
ACTCGACAGGTTCTGGGTTGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAGATGGATGCAGAATTCGGA
CATGACTCAGGATATGAAGTTCATCATCAAAAATTGGTGTCTTTTGAGAAGATGTGGGTTCAAACAAAGGTGCA
ATCATTGGACTCATGGTGGGCGGTGTTGTATAGCGACAGTGATCGTCATCACCTTGGTGTGCTGAAGAAGAAA
CAGTACACATCCATTATCATGGTGTGGTGGAGGTTGACGCCGCTGTACCCAGAGGAGCGCCACCTGTCCAAG
ATGCAGCAGAACGGCTACGAAAATCCAACCTACAAGTCTTTGAGCAGATGCAGAACTAGACCCCCGCCACAGCA
GCCTCTGAAGTTGGACAGCAAAACCATTGCTTCACTACCCATCGGTGTCCATTTATAGAATAATGTGGGAAGAAA
CAAACCCGTTTTATGATTTACTCATTATCGCCTTTTGACAGCTGTGCTGTAACACAAGTAGATGCCTGAACCTGA
ATTAATCCACACATCAGTAATGTATTCTATCTCTCTTTACATTTTGGTCTCTATACTACATTATTAATGGGTTTT
GTGTACTGTAAAGAATTTAGCTGTATCAAACCTAGTGCATGAATAGATTCTCTCTCTGATTATTTATCACATAGCCC
CTTAGCCAGTTGTATATTATTCTTGTGGTTTGTGACCAATTAAGTCTTACTTTACATATGCTTTAAGAATCGAT
GGGGGATGCTTCATGTGAACGTGGGAGTTCAGCTGCTTCTCTTGCTAAGTATTCCTTTCTGATCACTATGCAT
TTTAAAGTTAAACATTTTTAAGTATTTAGATGCTTTAGAGAGATTTTTTTTTCCATGACTGCATTTTACTGTACA
GATTGCTGCTTCTGCTATATTTGTGATATAGGAATTAAGAGGATACACACGTTTGTCTTCTCGTGCCTGTTTTAT
GTGCACACATTAGGCATTGAGACTTCAAGCTTTTCTTTTTTTGTCCACGTATCTTTGGGTCTTTGATAAAGAAAA
GAATCCCTGTTTATTGTAAGCACTTTTACGGGGCGGGTGGGGAGGGGTGCTCTGCTGGTCTTCAATTACCAAGAA
TTCTCCAAAACAATTTTCTGCAGGATGATTGTACAGAATCATTGCTTATGACATGATCGCTTTCTACACTGTATT
ACATAAATAAATAAATAAATAAACCCGGGCAAGACTTTTCTTTGAAGGATGACTACAGACATTAAATAATCGA
AGTAATTTTGGGTGGGAGAGAGGCAGATTCAATTTTCTTTAACCAGTCTGAAGTTTCATTTATGATACAAAAG
AAGATGAAAATGGAAGTGGCAATATAAGGGGATGAGGAAGGCATGCCTGGACAAACCTTCTTTAAGATGTGTC
TTCAATTTGTATAAATGGTGTTTTCATGTAAATAAATACATTCTTGGAGGAGC

6372/6881
FIGURE 5882

MLPGLALLLLAAWTARALEVPTDGNAGLLAEPQIAMFCGRNLNMHNVQNGKWDSDPSGKTCIDTKEGILQYCQE
VYPELQITNVVEANQPVTIQNWCKRGRKQCKTHPHFVIPYRCLVGEFVSDALLVPDKCKFLHQERMDVCETHLHW
HTVAKETCSEKSTNLHDYGMLLPCGIDKFRGVFVCCPLAEESDNVDSADAEEDDSVWWGGADTDYADGSEDKV
VEVAEEEEVAEVEEEEADDDDEDEDGDEVEEEAEPEYEEATERTTSIATTTTTTTESVEEVVREVCSEQAETGPC
RAMISRWFYFDVTEGKCAPFFYGGCGGNRRNNFDTEEYCMVCGSAMSQSLLKTTQEPLARDPVKLPPTAASTPDAV
DKYLETPGDENEHAHFQKAKERLEAKHRERMSQVMREWEEAERQAKNLPKADKKAVIQHFQEKVESLEQEAANER
QQLVETHMARVEAMLNDRRLALENYITALQAVPPRPRHVFNMLKKYVRAEQKDRQHTLKHFEHVRMVDPKKAAQ
IRSQVMTHLRVIYERMNQSLSLLYNVPAAVEEIQDEVDELLQKEQNYSDDLANMISEPRI SYGNDALMPSLTET
KTTVELLPVNGEFLDDLPWHSFGADSVFANTENEVEPVDARPAADRGLTTRPGSGLTNIKTEEISEVKMDAEF
RHDSGYEVHHQKLFFAEDVGSNKGAIIGLMVGGVVIATVIVITLVMLKKKQYTSIHGVEVDAAVTPEERHLS
KMQQNGYENPTYKFFEQMQN

6373/6881
FIGURE 5883

GCATGCTTTTTTTTTTTTTCCGGTAGGTGCGCCAGCTGAGGCGGTTTGTAAGTTTTGGGTCGCAGTATGCTAGAATT
TTGAGGCTCCCTTCTGATGAAAAATTGAGCTGTCCATGCAGCCATGGAACCCGGGTACAGCAGTGAGGGGGCCAC
GGCTCAAGAACTTACACATGTCCAAAAATGATTGAGATGGAGCAGGCGGAGGCCAGCTTGCTGAGTTAGACCT
GCTAGCCAGTATGTTCCCTGGTGAGAATGAGCTCATAGTGAATGACCAGCTGGCTGTAGCAGAACTGAAAGATTG
TATTGAAAAGAAGACAATGGAGGGGCGATCTTCAAAAGTCTACTTTACTATCAATATGAACCTGGATGTATCTGA
CGAAAAATGGCGATGTTTTCTCTGGCCTGTATTCTTCCCTTTAAATACCCGGCAGTTCTGCCTGAAATTACTGT
CAGATCAGTATTATTGAGTAGATCCCAGCAGACTCAGCTGAACACAGATCTGACTGCATTCTGCAAAAACATTG
TCATGGAGATGTTTGTATACTGAATGCCACAGAGTGGGTTAGAGAACACGCCTCTGGCTATGTCAGCAGAGATAC
TTCATCTTCACCCACCACAGGAAGCACAGTCCAGTCAGTTGACCTCATCTTCACGAGACTCTGGATCTACAGCCA
TCATATCTATAACAAATGCAAAAGAAAGAATATTCTAGAGTGGGCAAAGGAGCTTTCCTGTCTGGGTTTAGCAT
GCCTGGAAAACCTGGTGTGTTTGTGTGGAAGGCCCAAAAGTGCCTGTGAAGAATTCTGGTCAAGACTCAGAAA
ATTAAACTGGAAGAGAATTTTAATTGCGCCATCGAGAAGACATTCCTTTTGATGGTACAAATGATGAAACGGAAAG
ACAAAGGAAATTTTCCATTTTTGAAGAAAAAGTGTTCAGTGTTAATGGAGCCAGGGGAAACCACATGGACTTTGG
TCAGCTCTATCAGTTCTTAAACACCAAAGGATGTGGGGATGTTTTCCAGATGTTCTTTGGTGTAGAAGGACAATG
ACATCAAGAGTAGTTGAAAGTATCTTGCCACTGTTGGCCTTTTGATTTTTTTTTTCCCACTTTTTCTTGAAAGATT
AAGTAATTTTATTTTAGTTCCATTCTAGAATGTTGGGGAGTGGGGCACAAGAAAAAATAGTATAGCTGAAATGCA
TCTGTTAAAAATGTCATGATTGAAAGCAGAACTGAGTTTCAAATTACAACCTTAAATTTGTTGTTAGATATTTCT
TCACATATCAGCTGCCATTTTGAAAAAGAAATTATCCATAAAGGTAATGTTGGTGCTCCAATTTGCCAGCCATT
CCCAACCCCTTCTCCCTTACCTGCCTTCACTAAAGAACCCAGAAAAGCTAATTGCTCCCCTTTAGCCTCTGTT
GCAACTAACAACCTCTCAGTGGCCTCAGGACACAGCTTTGGCCTTGGGAATTCTGGGAAAACCTTTACTTCCTGAT
TAAAGATACATATGCAGCTAGGCCACCTCCTCCCCCTTACTGCCATAAACACCAAAGTGATGACTGGAGCTGG
AGGAGTTATTTGAACCACGACGGAAGGGCCAAGAGAGCCACGAAGATGCCAGTTGCCACATTGTTGAGCTGCTGA
CCCAACACCAGCCATTGCCTGTCTCTAAACATCTTATGAAATAAAACCAGTTTGTGTTAAAAAAAAAAAAAAAAAA
AAAA

6374/6881
FIGURE 5884

MKIELSMQPWNPGYSSEGATAQETYTCPKMIEMEQAEQLAELDLLASMFPGENELIVNDQLAVAELKDCIEKKT
MEGRSSKVYFTINMNLVDSEKMAMFSLACILPFKYPAVLPEITVRSVLLSRSQQTQLNTDLTAFLQKHCHGDVC
ILNATEWVREHASGYVSRDTSSSPTTGSTVQSVDLIFTRLWIYSHHIYNKCKRKNILEWAKELSLSGFSMPGKPG
VVCVEGPQSACEEFWSRLRKLNWKRILIRHREDIPFDGTNDETERQRKFSIFEKVF SVNGARGNHMDFGQLYQF
LNTKGCGDVFQMFFGVEGQ

6375/6881
FIGURE 5885

CGCGTGAAGTGCCTTCCTGCAGGCTGGCCATGGCGCTTCACGTTCCCAAGGCTCCGGGCTTTGCCCAGATGCTCAA
GGAGGGAGCGAAACACTTTTCAGGATTAGAAAGAGGCTGTGTATAGAAACATACAAGCTTGCAAGGAGCTTGCCCA
AACCCTCGTACAGCATATGGACCAAAAGGAATGAACAAAATGGTTATCAACCACCTGGAGAAAGTTGTTTGTGAC
AAACGATGCAGCAACTATTTTAAGAGAACTAGAAGTACAGCATCCTGCTGCAAAAATGATTGTAATGGCTTCTCA
TATGCAAGAGCAAGAAGTTGGAGATGGCACAAACTTTGTTCTGGTATTTGCTGGAGCTCTCCTGGAATTAGCTGA
AGAACTTCTGAGGATTGGCCTGTCTAGTTTCAGAGGTCATAGAAGGTTATGAAATAGCCTGCAGAAAAGCTCATGA
GATTCTTCCTAATTTGGTATGTTGTTCTGCAAAAAACCTTCGAGATATTGATGAAGTCTCATCTCTACTTCGTAC
CTCCATAATGAGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGCTCAGGCATGCGTATCTATTTT
TCCTGATTCCGGCCATTTCAATGTTGATAACATCAGAGTTTGTAATAATTCTGGGCTCTGGTATCAGTTCTCTCTC
AGTATTGCATGGCATGGTTTTTAAGAAGGAAACCGAAGGTGATGTAACATCTGTCAAAGATGCAAAAATAGCAGT
GTACTCTTGTCTTTTTGATGGCATGATAACAGAACTAAGGGAACAGTGTTGATAAAGACTGCTGAAGAATTGAT
GAATTTTAGTAAGGGAGAAGAAAACCTCATGGATGCACAAGTCAAAGCTATTGCTGATACTGGTGCAAATGTCTGT
AGTAACAGGTGGCAAAGTGGCAGACATGGCTCTTCATTATGCAAATAAATATAATATCATGTTAGTGAGGCTAAA
CTCAAAATGGGATCTCCGAAGACTTTGTAAAACGTGTTGGTGCTACAGCTCTTCCTAGATTGACACCTCCTGTCTC
TGAAGAAATGGGACACTGTGACAGTGTTTACCTCTCAGAAGTTGGAGATACTCAGGTGGTGGTTTTTAAGCATGA
AAAGGAAGATGGCGCCATTTCTACCATAGTACTTCGAGGCTCTACAGACAATCTGATGGATGACATAGAAAGGGT
AGTAGACGATGGTGTTAATACTTTCAAAGTTCTTACAAGGGATAAACGTCTTGTAACCGGAGGTGGAGCAACAGA
AATTGAATTAGCCAAACAGATCACATCATATGGAGAGACATGTCTGGACTTGAACAGTATGCTATTAAGAAGTT
TGCTGAGGCATTTGAAGCTATTCCCCGCGCACTGGCAGAAAACCTCTGGAGTTAAGGCCAATGAAGTAATCTCTAA
ACTTTATGCAGTACATCAAGAAGGAAATAAAAAACGTTGGATTAGATATTGAGGCTGAAGTCCCTGCTGTAAAGGA
CATGCTGGAAGCTGGTATTCTAGATACTTACCTGGGAAAATATTGGGCTATCAAACCTCGCTACTAATGCTGCAGT
CACTGTACTTAGAGTGGATCAGATCATCATGGCAAAACCAGCTGGTGGGCCCAAGCCTCCAAGTGGGAAGAAAGA
CTGGGATGATGACCAAAATGATTGAATTGGCTTAATTTTTACTGTAGGTGAAGGCTGTATTTGTAGTAGTACTC
AAGAATCACCTGATGTTTTCTTATTCTCTTAAATTAAGAGTTATTTTGTGTTTGTATTCTTGGCTGGATGTTAT
AATAAACATATTGTTACTGTC

6376/6881
FIGURE 5886

MALHVPKAPGFAQMLKEGAKHFSGLEEAVYRNIQACKELAQTTRTAYGPKGMNKMVINHLEKLFVTNDAATILRE
LEVQHPPAAKMIVMASHMQEQEVGDGTNFFVLVFAGALLELAEELLRIGLSVSEVIEGYEIACRKAHEILPNLVCCS
AKNLRDIDEVSSLLRTSISMSKQYGNEVFLAKLIAQACVSIFPDSGHFNVDNIRVCKILGSGISSSSVLHGMVFKK
ETEGDVTSVKDAKIAVYSCPFDMITETKGTVLIKTAEELMNFSKGEENLMDAQVKAIADTGANVVVTGGKVADM
ALHYANKYNIMLVRLNSKWDLRRLCKTVGATALPRLTPPVLEEMGHCDVYLSEVGDTQVVVFKEKEDGAISTI
VLRGSTDNLMDDIERVVDDGVNTFKVLTRDKRLVPGGGATEIELAKQITSYGETCPGLEQYAIKKFAEAFEAI
PRALAENSGVKANEVISKLYAVHQEGNKVGLDIEAEVPAVKDMLEAGILD TYLGKYWAIK LATNAAVTVLRVDQII
MAKPAGGPKPPSGKKDWDDQND

6377/6881
FIGURE 5887

CCCTGAGGCTTTTCGGAGCGAGCTCCTCAAATCGCATCCAGATTTTCGGGTCCGAGGGAAGGAGGACCCTGCGAA
AGCTGCGACGACTATCTTCCCCTGGGGCCATGGACTCGGACGCCAGCCTGGTGTCCAGCCGCCGTCGTGCGCCAG
AGCCCCGATGACCTTTTCTGCCGGCCCGGAGTAAGGGCAGCAGCGGCAGCGCCTTCACTGGGGGCACCGTGTCTT
CGTCCACCCCGAGTGACTGCCCGCCGGAGCTGAGCGCCGAGCTGCGCGGCGCTATGGGCTCTGCGGGCGCGCATC
CTGGGGACAAGCTAGGAGGCAGTGGCTTCAAGTCGTCTCTGTCCAGCACCTCGTCGTCTACGTCTGCGCGGCTG
CGTCGTCCACCAAGAAGGACAAGAAGCAAATGACAGAGCCGGAGCTGCAGCAGCTGCGTCTCAAGATCAACAGCC
GCGAGCGCAAGCGCATGCACGACCTCAACATCGCCATGGATGGCCTCCGCGAGGTATGCCGTACGCACACGGCC
CTTCGGTGCGCAAGCTTTCCAAGATCGCCACGCTGCTGCTGGCGCGCAACTACATCCTCATGCTCACCAACTCGC
TGGAGGAGATGAAGCGACTGGTGAGCGAGATCTACGGGGGCCACCACGCTGGCTTCCACCCGTCGGCCTGCGGCG
GCCTGGCGCACTCCGCGCCCCTGCCCGCCGCCACCGCGCACCCGGCAGCAGCAGCGCACGCCGCACATCACCCCG
CGGTGCACCACCCCATCCTGCCGCCCGCCGCCGAGCGGCTGCTGCCGCCGCTGCAGCCGCGGCTGTGTCCAGCG
CCTCTCTGCCCGGATCCGGGCTGCCGTGGTTCGGCTCCATCCGTCCACCGCACGGCCTACTCAAGTCTCCGTCTG
CTGCCGCGGCGCCCCGCTGGGGGGCGGGGGCGGCGGCAGTGGGGCGAGCGGGGGCTTCCAGCACTGGGGCGGCA
TGCCCTGCCCCTGAGCATGTGCCAGGTGCCGCCGCCGACCACCACGTGTGCGCTATGGGCGCCGGCAGCCTGC
CGCGCCTCACCTCCGACGCCAAGTGAAGCGACTGGCGCCGGCGCGTTCTGGCGACAGGGGAGCCAGGGGGCGCGG
GGAAGCGAGGACTGGCCTGCGCTGGGCTCGGGAGCTCTGTGCGGAGGAGGGGCGCAGGACCATGGACTGGGGGTG
GGGCATGGTGGGGATTCCAGCATCTGCGAACCCAAAGCAATGGGGGCGCCACAGAGCAGTGGGGAGTGAGGGGAT
GTTCTCTCCGGGACCTGATCGAGCGCTGTCTGGCTTTAACCTGAGCTGGTCCAGTAGACATCGTTTTATGAAAAG
GTACCGCTGTGTGCATTCTCTACTAGAACTCATCCGACCCCCGACCACCACCTCCGGGAAAAGATTCTAAAAACT
TCTTTCCTGAGAGCGTGCCCTGACTTGAGACTCGGCTTGGGCAGCACTTCGGGGGGGAGGGGGTGTATGGG
AGGGGGACACATTGGGGCCTTGCTCCTCTTCTCCTTTCTTGGCGGGTGGGAGACTCCGGGTAGCCGCACATGCAG
AAGCAACAGCCCGACCGCGCCCTCCAGGGTTCGTCCCTGGCCCAAGGCCAGGGGCCACAAGTTAGTTGGAAGCCGG
CGTTCGGTATCAGAAGCGCTGATGGTCATATCCAATCTCAATATCTGGGTCAATCCACACCCTCTTAGAACTGTG
GCCGTTCTCCCTGTCTCTCGTTGATTTGGGAGAATATGGTTTTCTAATAAATCTGTGGATGTTCTTCTTCAAC
AGTATGAGCAAGTTTATAGACATTGAGAGTAGAACCCTTGTGGATTGGAATAACCCAAAAGTCCCGATTTCAGG
GGCGGGTGCAATTGTAGTTATTATTTTAAATAGAACTACCCACCGACTCATCTTCTCTCTAAGCACAAAG
TGATTTGGTTATTTTGGTACCTGAGAACGTAACAGAATTAAAAGGCAGTTGCTGTGGAACAGTTTGGGTTATTT
GGGGGTTCTGTTGGCTTTTTTAAATTTTCTTTTTTGGATGTGTAAATTTATCAATGATGAGGTAAGTGCGCAATG
CTAAGCTGTTTGCTCACGTGACTGCCAGCCCCATCGGAGTCTAAGCCGGCTTTCCTCTATTTTGGTTTATTTTG
CCACGTTTAAACACAAATGGTAACTCCTCCAGTGCTTCTGCGTTCCGTGCAAGCCGCCCTCGGCGCTGCCGTGC
TTGCAAACTGGGCTTTGTAGCGTCTGCCGTGTAACACCCTTCTCTGATCGCACCGCCCCCTCGCAGAGAGTGTAT
CATCTGTTTTATTTTGTAAAAACAAAGTGCTAAATAATATTTATTACTTGTTTGGTTGCAAAAACGGAATAAAT
GACTGAGTGTGAGATTTTAAATAAAATTTAAAGT

6378/6881
FIGURE 5888

MDSDASLVSSRPSSPEPDDLFLPARSKGSSGSAFTGGTVSSSTPSCPPELSAELRGAMGSAGAHFGDKLGGSGF
KSSSSSTSSSTSSAAASSTKKDKKQMTPELQQLRLKINSRERKRMHDLNIAMDGLREVMPYAHGPSVRKLSKIA
TLLLARNYILMLTNSLEEMKRLVSEIYGGHHAGFHPSACGGLAHSAPLPAATAHPAAAAHAHHPAVHHPIILPPA
AAAAAAAAAAAAVSSASLPGSGLPSVGSIRPPHGLLKSPSAAAAAPLGGGGGGSGASGGFQHWGGMPCPCSMCQV
PPPHHVVSAMGAGSLPRLTSDAK

6379/6881
FIGURE 5889

CCGGAAGCCGCCGCGGACAAGCTCTCCCGGGCGCGGGCGGGGGTTCGTGTGCTTGGAGGAAGCCGCGGAACCCCCA
GCGTCCGTCCATGGCGTGGAGCCTTGGGAGCTGGCTGGGTGGCTGCCTGCTGGTGTGAGCATTGGGAATGGTACC
ACCTCCCGAAAATGTCAGAATGAATTCTGTTAATTTCAAGAACATTCTACAGTGGGAGTCACCTGCTTTTGCCAA
AGGGAACCTGACTTTTACAGCTCAGTACCTAAGTTATAGGATATTCCAAGATAAATGCATGAATACTACCTTGAC
GGAATGTGATTTCTCAAGTCTTTCCAAGTATGGTGACCACACCTTGAGAGTCAGGGCTGAATTTGCAGATGAGCA
TTCAGACTGGGTAAACATCACCTTCTGTCTGTGGATGACACCATTATTGGACCCCTGGAATGCAAGTAGAAGT
ACTTGCTGATTCTTTACATATGCGTTTCTTAGCCCCATAAAATTGAGAATGAATACGAAACTTGGACTATGAAGAA
TGTGTATAACTCATGGACTTATAATGTGCAATACTGGAAAAACGGTACTGATGAAAAGTTTCAAATTACTCCCCA
GTATGACTTTGAGGTCCCTCAGAAACCTGGAGCCATGGACAACCTATTGTGTTCAGTTTCGAGGGTTTCTTCCTGA
TCGGAACAAAGCTGGGGAAATGGAGTGAGCCTGTCTGTGAGCAAACAACCCATGACGAAACGGTCCCCTCCTGGAT
GGTGGCCGTCATCCTCATGGCCTCGGTCTTCATGGTCTGCCTGGCACTCCTCGGCTGCTTCGCCTTGCTGTGGTG
CGTTTACAAGAAGACAAAGTACGCCTTCTCCCCTAGGAATTCTCTTCCACAGCACCTGAAAGAGTTTTTGGGCCA
TCCTCATCATAACACACTTCTGTTTTTCTCCTTTCCATTGTGCGATGAGAATGATGTTTTTGACAAGCTAAGTGT
CATTGCAGAAGACTCTGAGAGCGGCAAGCAGAATCCTGGTGACAGCTGCAGCCTCGGGACCCCGCCTGGGCAGGG
GCCCCAAAGCTAGGCTCTGAGAAGGAAACACACTCGGCTGGGCACAGTGACGTACTCCATCTCACATCTGCCTCA
GTGAGGGATCAGGGCAGCAAACAAGGGCCAAGACCATCTGAGCCAGCCCCACATCTAGAACTCCCAGACCCTGGA
CTTAGCCACCAGAGAGCTACATTTTAAAGGCTGTCTTGCAAAAATACTCCATTTGGGAACCTCACTGCCTTATAA
AGGCTTTTCATGATGTTTTTCAGAAAGTTGGCCACTGAGAGTGTAATTTTCAGCCTTTTATATCACTAAAATAAGATC
ATGTTTTAATTGTGAGAAACAGGGCCGAGCACAGTGGCTCACGCCTGTAATACCAGCACCTTAGAGGTCGAGGCA
GGCGGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAATATGGTGAAACCCAGTCTCTACTAAAATACA
AAAATTAGCTAGGCATGATGGCGCATGCCTATAATCCCAGCTACTCGAGTGCCTGAGGCAGGAGAATTGCATGAA
CCCCGGAGGAGGAGGAGGAGGTTGCAGTGAGCCGAGATAGCGGCACTGCACTCCAGCCTGGGTGACAAAGTGAGA
CTCCATCTCAAAAAAAAAAAAAAAAAAAATTGTGAGAAACAGAAATACTTAAATGAGGAATAAGAATGGAGATG
TTACATCTGGTAGATGTAACATTCTACCAGATTATGGATGGACTGATCTGAAAATCGACCTCAACTCAAGGGTGG
TCAGCTCAATGCTACACAGAGCACGGACTTTTGGATTCTTTGCAGTACTTTGAATTTATTTTTCTACCTATATAT
GTTTTATATGCTGCTGGTGCTCCATTAAAGTTTTACTCTGTGTTGC

6380/6881
FIGURE 5890

GAATCACACTCAGGCAGTCTCTCTCCTTTCTGAACAGAGATGAGCCCTAAGATACCTGGAAGATTTTGTTTTTTAA
CCTCACATTAAGGAAAGCACACATCACCTTGAAAGAGCTAAACTTGACGTCCTACAGAAATTTCTCTAACTTAACA
TGTTGAGTCTCTGAGAGTGCAAACTTGAAACAAGAGAAAGTGGCCTGCCTGGCATCCTCTGCTTATTGAATGGT
TTTATTTAATTTCTCCTTTACATTGCCACCTTAACAATCCTTCCAGCTACGTATCTTAAAGGATGTGATGGAGAAG
TTATCAACTGGTGTGTTTTAGACCTCAGTTGGATGAACCCATTCCACTGTATGAGGCAAAAGTTTCCATGGAAGCT
GTTTCAAAAAATCAAGGAAGAAAAAAGGTAGTGCACATCAGCGCCCTGGATCGCATACTTTCCAGAAGCGTCGCT
GAACCTGGCGACTGGACTCTGGCCGAGGACCTGGCAGAAGCGCCAGGGCAGGGTCACCGCTGGGACAGTGGGCGT
TGACGGCCACCCGGGATCGCCGCTGCGGGCTGCGTCTCGCGGGCTGCCACTGCGCATGCTCCGCTCGGAACCGG
CGGGGGCGGAGGCGGGGGCCGCTCGGGGGCGGGAGCTCGGCGAGGCGCCACGTGAGGGGCGGGCCCGCGCGCGC
GGGAAGTCTCTGTAGGGCGGCCGGCTACCTTCAGCCGCCGCGCGTCAATGGCCCTTTCGGTGCCCGGCTACTCACC
GGGTTTCCGAAAGCCGCCCGAGGTAGTGGGCTCCGACGGAAGGGCCCGAGCCGTGGAGCTGCCGCTCCCC
GCCCCGTGAGCTGACGGAGCCGGCGGCCCGCCGAGCCGCCCTGGTGGCGGGGCTGCCTCTTCGCCCTTTCCCTGC
TGCGGGGGGCGAGAGCGGTGGCAGCGGCGGGCGGCCCGCTGCTCGGAGGAACCCCTTCGCCCGCTGGACAA
CCGACCGCGGGTGCCTCGGAGACCCCCGACGGGCGGGCCCGCGAGCAGCCGGAGGCCCCGGTCCCGTTTTTAGA
TTCTAATCAAGAAAATGATTTGCTATGGGAAGAGAAGTTTCTGAAAGAACAACCTGTTACTGAATTACCTCAGAC
TTCACATGTATCATTCTCCGAGCCTGATATTCCGCTCTCAAAAAGTACTGAGTTACCTGTGGACTGGAGTATTAA
AACGCGACTCCTTTTTACCTCTTCTCAACCCTTTACCTGGGCAGATCATTGAAAGCACAGGAAGAAGCTCAAGG
TCTTGTCAGCATTGTAGGGCAACAGAAGTTACTTTGCCTAAAAGTATACAGGATCCCAAACCTCTCCTCTGAGCT
CCGTTGTACCTTCCAGCAGAGCCTTATCTATTGGCTCCACCCTGCTTTGCTTGGCTACCCTGTTCCCTCGTAT
TGGAGCTGATAGAAAAATGGCTGGAAAGACAAGTCCTTGGTCAAAATGATGCAACCCTGCAGCATGTTTTAATGAG
TGACTGGTCTGTGAGCTTTACTTCTCTATATAATTTGCTGAAAGACAAAACCTTTGCCCTATTTCTACGTTTGTAC
CTATCAGTTTACTGTCTGTTCGAGCAGCAGGATTAGCTGGAAGTGACTTAATCACAGCTCTCATATCTCCAAC
AACTCGAGGTTTAAAGAGAAGCTATGAGAAATGAAGGTATTGAATTTTCTCTGCCCTTTAATAAAAGAAAGTGGCCA
TAAGAAGGAGACAGCATCTGGAACAAGCTTGGGATATGGGGAGGAGCAAGCCATCAGTGATGAGGATGAAGAGGA
AAGTTTTTCTGGCTGGAAGAGATGGGTGTGCAAGATAAAATTAAGGACGAGACATACTTTCTATCAAGCTGCG
TAAAGAGAAACATGAAGTACAAATGGATCACAGACCTGAATCTGTGTGTGTTGTTAAAGGAATCAACACCTTTAC
ATTGCTCAATTTTTTGAATTAACCTCTAAGAGTTTAGTTGCTACCTCAGGTCCACAGGCAGGACTTCTCCAACCCT
CTTGTCCTCTGTGCTTTCCGAGGTGCCACAATGCAAATGCTTAAGGCACGAGTGTGAATGTGAAGACACAAGC
TCTTTCTGGATACAGAGACCAATTTAGTTTGGAGATTACAGGTCTATCATGCCTCATTCTCTGCATTCACTGAC
CATGCTGCTCAAATCTTCACAGAGTGGATCTTTCTCTGCAGTACTGTATCCACACGAGCCAACTGCTGTATTTAA
CATCTGCCCTGCAAATGGACAAAGTACTTGATATGGAGTTGTTTATAAGGAGCTTACTAACTGTGGTTTGCACCC
TAACACTCTGGAGCAACTTAGTCAAATACCGTTACTTGGGAAATCATCTTTACGGAATGTGGTGTGAGAGACTA
CATTTATAAATTGGAGATCCTGAACACCAAAGTAAGCCTAAAAGGAATCTTTGAGGAAAAAGCCTTCTAGCAAGG
AAATTCAAGATTCTTGAAGTTGAAGGAATATACTGAAATGTTTATAAACATAACTTTTACTACAGTAGCATCTAA
GGTTTTAAATGTGTTTTACTATTTTCAGATTAGATTTTAGATATAAAGATGAAAACTCAGATAACTCAAATGA
GATATCTATATCCCTACAACCTAATTGTATATTGAGCAGAACTGAATTAATATGCTTCCTTGCAAATGGGAAAT
CACATAGCAGTTACCCCATGGCATTGTGACTAATGGCATCAGGGCAAAAATATGTTACTTTACGATTTACCTGTT
AGCAGGTTCTTGTTTCATAAAGGTAGAAAATAAATACAGACAACATCTAAAAA

6381/6881
FIGURE 5891

MALSVPGYSPGFRKPPEVVRLRRKRARSRGAAASPPRELTEPAARRAALVAGLPLRPFPAAAGGRGGGSGGGPAAA
RRNPFARLDNRPRVAAEPPDGPAREQPEAPVPFLDSNQENDLLWEEKFPERTTVTELPQTSHVSFSEPDIPSSKS
TELPVDWSIKTRLLFTSSQPFTWADHLKAQEEAQGLVQHCRATEVTLPKSIQDPKLSSELRCTFQQSLIYWLHPA
LSWLPLFPRIGADRKMAGKTSPWSNDATLQHVLMSDWSVSFTSLYNLLKTKLCPYFYVCTYQFTVLFRAAGLAGS
DLITALISPTTRGLREAMRNEGIEFSLPLIKESGHKKETASGTS LGYGEEQAISDEDEEESFSWLEEMGVQDKIK
KPDILSIKLRKEKHEVQMDHRPESVVLVKGINFTLLNFLINSKSLVATSGPQAGLPPTLLSPVAFRGATMQMLK
ARSVNVKTQALSGYRDQFSLEITGPIMPHSLHSLTMLLKSSQSGSFSAVLYPHEPTAVFNICLQMDKVLDMEVVH
KELTNCGLHPNTLEQLSQIPLL GKSSLRNVVLRDYIYNWRS

6382/6881
FIGURE 5892

AAGCTTGGCACGAGGCCTACAACCGCCCGGGAGAAGATGGCTGCCCCAGCAGTGTCCGGGCTCTCCCGGCAGGTG
CGATGCTTCAGTACCTCTGTGGTCAGACCATTTGCCAAGCTTGTGAGGCCCTCCTGTTTCAGGTATACGGTATTGAA
GGTCGCTATGCCACAGCTCTTTATTCTGCTGCATCAAAACAGAATAAGCTGGAGCAAGTAGAAAAGGAGTTGTTG
AGAGTAGCACAAATCCTGAAGGAACCCAAAGTGGCTGCTTCTGTTTTGAATCCCTATGTGAAGCGTTCCATTAAA
GTGAAAAGCCTAAATGACATCACAGCAAAAGAGAGGTTCTCTCCCTCACTACCAACCTGATCAATTTGCTTGCT
GAAAATGGTCGATTAAGCAATACCCAAGGAGTCGTTTTCTGCCTTTTCTACCATGATGAGTGTCCATCGCGGAGAG
GTACCTTGACAGTGACCTCTGCATCTCCTTTAGAAGAAGCCACACTCTCTGAATTAAAACTGTCCTCAAGAGC
TTCCTAAGTCAAGGCCAAGTATTGAAATTGGAGGCTAAGACTGATCCGTCAATCTTGGGTGGAATGATTGTGCGC
ATTGGCGAGAAATATGTTGACATGTCTGTCAAGACCAAGATTTCAGAAGCTGGGCAGGGCTATGCGGGAGATTGTC
TAAAAGTGTGGTTTTCTGCCATCAGTGAAAATTCTTAACTTGGAGCAACAATAAAAAGCTTCCAGAACAGATC
AAAAAAAAAAAAAAAAAAAAA

6383/6881
FIGURE 5893

MAAPAVSGLSRQVRCFSTSVVRPF AKLVRPPVQVYGIEGRYATALYSAASKQNKLEQVEKELLRVAQILKEPKVA
ASVLNPYVKRSIKVKS LNDITAKERFSPLTTN LINLLAENGRLSNTQGVVSAFSTMMSVHRGEVPCTVTSASPLE
EATLSELKTVLKSFLSQGQVLKLEAKTDPSILGGMIVRIGEKYVDMSVKT KIQKLGRAMREIV

6384/6881
FIGURE 5894

CAGACTCGAGCAGTCTCTGGAACACGCTGCGGGGCTCCCGGGCCTGAGCCAGGTCTGTTCTCCACGCAGGTGTTCCGCGCGCCCCGTTTCAGCCATGTCGTCCGGCATCCATGTAGCGCTGGTGAAGGCAACAAGGGCATCGGCTTGCCATCGTGC GCGACCTGTGCCGGCTGTTCTCGGGGGACGTGGTGCTCACGGCGCGGGACGTGACGCGGGGCCAGGCGGCCGTACAGCAGCTGCAGGCGGAGGGCCTGAGCCCGCGCTTCCACCAGCTGGACATCGACGATCTGCAGAGCATCCGCGCCCTGCGCGACTTCCTGCGCAAGGAGTACGGGGGCCTGGACGTGCTGGTCAACAACGCGGGCATCGCCTTCAAGGTTGCTGATCCACACCCTTTTCATATTCAAGCTGAAGTGACGATGAAAACAAATTTCTTTGGTACCCGAGATGTGTGCACAGAATTACTCCCTCTAATAAAACCCCAAGGGAGAGTGGTGAACGTATCTAGCATCATGAGCGTCAGAGCCCTTAAAAGCTGCAGCCCAGAGCTGCAGCAGAAGTTCCGCAGTGAGACCATCACTGAGGAGGAGCTGGTGGGCTCATGAACAAGTTTGTGGAGGATACAAAGAAGGGAGTGACCAGAAGGAGGGCTGGCCCAGCAGCGCATAAGGGTGACGAAGATTGGCGTCACCGTTCTGTCCAGGATCCACGCCAGGAACTGAGTGAGCAGAGGAAAGGGGACAAGATCCTCCTGAATGCCTGCTGCCAGGGTGGGTGAGAACTGACATGGCGGGACCCAAGGCCACCAAGAGCCCAAGAGAAGGTGCAGAGACCCCTGTGTACTTGGCCCTTTTGCCCCAGATGCTGAGGGTCCCCATGGACAATTTGTTTCAGAGAAGAGAGTTGAACAGTGGTTGACGCTGGGCTCACAGCTCCATCCATGGGCCCCATTTTGTACCTTGTCCTGAGTTGGTCCAAAGGGCATTTACAATGTCATAAATATCCTTATATAAGAAAAAAATGATCTCTTATCAATTAGCACTCACTAATGTACTACTAATTGAGCAACCTACGCACCTCAGTTGACTACGTAAATCTGTCAGGTCTTTTGTGATTTCTCTGATGCAGGAGAGGAAAAATTGTAATTGATGAAAATAATGAATGAAAATCAACAGATGAATAAATGGTTCTTTATAAGTG

6385/6881
FIGURE 5895

MSSGIHVALVTGGNKGIGLAIVRDLCLFSGDVLTARDVTRGQAAVQQLQAEGLSPRFHQLDIDDLQSIRALRD
FLRKEYGGLDVLVNNAGIAFKVADPTPFHIQAEVTMKTNFFGTRDVCTELLPLIKPQGRVVNVSSIMSVRAKSC
SPELQQKFRSETITEEELVGLMNKFVEDTKKGVHQEGWPSSAYGVTKIGVTVLSRIHARKLSEQRKGDKILLNA
CCPGWVRTDMAGPKATKSPEEGAETPVYLALLPPDAEGPHGQFVSEKRVEQW

6386/6881
FIGURE 5896A

CTGAACTAGTTGCCAGTGATCTTGAAACGTGACAGTAACCAAGAGATAAAATAGGTGACAATGACAGGAAAATTAG
ATGTAGTAAAAGAGAGTGTGTTGAGAGCAGAAGCTATGGCAACTAAAGACTGGATTGGAATCCTTCCTAGCTTGGT
GACATGAGCAAATTACTTGATTTAAGTGAGCATTTTCCCATCTGTACAGTGGAGATAACGATAATTGTGCCTGCT
AAGAAGAATTGCTGTGAAGATTAGTGAAATAATGCATGTAAAACATTTGGTACAGTATGTGACACATAGTACAAA
TAGTTTGCTAGGAAGATTGTTATTATTCTTCACCTTGATATTGTGAAGTTTTTCATACAGCAAATTGGACATCAT
GAGATGGATTGATTAAATAAATAGATTGAACTTCAAGGACTGGTAGTGTTCTTGCTTTGGAAAGAAGAACTTG
GTTTATCCTAATAATAGTAGGATAATAATGGTGAAGTGATAGGTACAAGTAATAGTGTTTATGATGCGCTGGTGA
TGATAGGAAAAAGAAAGCCATTATATGGGCAAGAGCTAGAAGTAATAAAATGGTGCAATTTTTCAGTGATGTTTGGC
CTATGTAGCTATTCTCTGATAACTATAAAAAATCCTTATTATTGAAGATTCTTCAGGAAAAAAAACCCCTTAGTCT
GAAACTTTAGCACCAATCCCCCTTGCCCCCATTTGAAATACGTATTTTTTAAACATGGCTTTTGATAATGTGAGG
GTTTTTCTTTTTTGCGATTTAGCAGTGCTGATTGTGTATTGCAGTAGTTGTGAGAGCATTAGAAGCAGCAGTCG
ATAGGAGGATGGAAGGTCTGGATGCCGCCTTGGGAGTTAGGAGATTGGCAGACTTACCCTGTACCCTCTAGCC
CTACTCCTTTGCCCAAGACAGAAACACACTGAGATGGATAGGAGAATATGAGCAGTTGATAGGAAAGTTCTCAGT
GGAGTCAGGATTTAGGTTAGGCCAGGAGATTGAGAATATAACAGTTTGTGTATGATGAAATGGCATATTTACAG
AATGCAGTAAAAGCAGGTAGGGTACAAGTGCAGCAACAGGAAGATGTCTTTTCTTCATTACAGCAAACACTTATTT
GAGAGCTTACCATGTGCTAGGCACATACAAAGATAAATAAGATGCCCTTGATGATCCTCTATTTAAAGGAGACAT
GTAAACAGGTTAACTTAGAGTAGAGATGGTGAATATGTGAACCTGAGGAAAGGAAGAAATAGATTAAATTATCTG
GAGAGAGAGGAAAAGTCAGCAGAATGGGGACGAGAATCTTTCGGAGCTCAGTGTTCTGATAGGAGTTATTTCTT
GGGCATAGGTTCCAAGTATTTTTCTAATATACCATAGAAGCCAGGAAAACCTTTCTTCTGTTATCTCAAATGATTT
AATTACTGACTTGAGTTTGTGTTGTCTCCTTAGACTTGTGCACCATGGACAATTTTGCTGAGGGAGATTTCACTG
TGGCGGATTATGCCTTGTTAGAAGATTGCCCTCACGTGGATGATTGTGTCTTTGCTGCTGAATTTATGAGCAATG
ATTATGTTTCGTGTGACTCAGCTTTACTGTGATGGGGTGGGTGTGCAATATAAAGATTATATCCAAAGTGAGAGGA
ATTTGGAATTTGACATCTGCAGTATATGGTGTAGTAAACCAATTTCTGTCTGCAAGATTATTGCGATGCCATTA
AAATAACATCTTCTGGCCACTTCTGTTTCAACATCAAAACAGTTCCGTAATATCACGATTGCATCCCTGTGTGG
ACGCCAACAAATTCACGTGCTTCTGAGATAAATTTGAAGAACTACAACATCTTGAGTTGATGGAAGATATTGTGG
ATTTGGCAAAGAAAGTTGCTAATGATTCACTCCTTATTGGAGGCTTATTGAGAATTGGTTGTAAAATAGAAAATA
AAATCTTGGCAATGGAAGAAGCTCTGAATTGGATAAAATATGCAGGCGATGTAACAATTTCTAACTAAATTAGGAT
CAATTGACAATTGTTGGCCTATGTTAAGTATTTTCTTTACTGAATACAAGTACCACATAACTAAAATTGTAATGG
AAGACTGCAATTTGCTTGAAGAAGCTTAAACTCAAAGTTGTATGGATTGTATAGAGGAAGGAGAACTAATGAAAA
TGAAAGGAAATGAAGAGTTTCCAAAGAAAGATTGATATAGCTATTATCTATTACACCAGAGCCATTGAATATA
GACCTGAAAACCTACCTTCTTTATGGTAACCGAGCTCTTTGTTTTCTTCGTACTGGACAGTTTAGAAATGCACTCG
GTGATGGAAAGAGAGCCACTATTCTGAAGAACCTTGGCCAAAGGGTCATTATCGTTATTGTGATGCTCTTTCTA
TGCTGGGGGAATATGACTGGGCCCTGCAAGCAAACATAAAAGCTCAAAAACCTCTGTAAAAATGACCCTGAGGGAA
TCAAGGATCTAATTCAGCAGCATGTAAAGTTACAAAACAAATAGAAGACCTACAAGGTGCAACAGCAAATAAGG
ATCCAATTAAAGCCTTTTATGAAAACAGGGCCTACACACCTAGGAGTTTATCAGCACCTATATTTACTACTTCAC
TTAACTTTGTGGAGAAGGAAAGAGATTTTCAGAAAAATTAATCACGAAATGGCCAACGGTGGAATCAGAATCTAA
AGGTGGCGGATGAGGCGTTGAAGGTAGATGATTGTGACTGTCATCCTGAATTTTACCACCATCAAGTCAGCCTC
CAAAACATAAAGGAAAACAAAAATCTCGAAACAATGAATCAGAAAAGTTTCAAGTTCTAGTTTACCATTGACTTTAC
CAGCAGATTTGAAGAACATCTTGGAGAAACAGTTTCTAAATCTTCAGAGCTGCACACCAGGATTTTGCTAATA
TAATGAAAATGCTGAGAAGCTTAATTCAAGATGGCTATATGGCCTTATTGGAGCAGCGTTGCCGCAGCGCTGCAC
AGGCCTTTACAGAGTTGCTGAACGGTTTAGATCCTCAAAAATAAAGCAATTGAACCTGGCCATGATTAACTATG
TTTTGGTTCGTCTATGGAATTTCTCTCCTTGGGAATAGGACAGCCTGAGGAATTATCTGAAGCCGAAAACC
AGTTTAAGAGGATTATTGAACACTACCCAGTGAGGGCCTTGATTGCTTGGCCTACTGTGGAATTGGAAGGTGT
ATTTGAAAAAAACAGATTTCTAGAAGCTCTCAATCACTTTGAGAAAGCAAGAACCTTGATTATCGTCTTCCTG
GAGTGTTAACTTGGCCACGAGTAATGTGATTATTGAAGAGTCTCAGCCACAAAAAATAAAGATGCTGTTAGAGA
AATTTGTTGAAGAATGCAAGTTCCCTCCAGTGCCAGATGCCATTTGTTGCTATCAGAAGTGCCATGGATATTCTA
AGATCCAGATATACATAACTGATCCAGACTTTAAGGGTTTTATACGCATCAGCTGTTGCCAGTACTGTAAATAG
AATTTACATGAATTGCTGGAAGAAGTTAAAAACTACAACCTTTAATGATAAAATTGACAAGGATTTTCTACAAG

6387/6881

FIGURE 5896B

GAATATGTCTTACCCCTGACTGTGAAGGIGTCATTTCTAAGATTATCATCTTCAGCAGTGGTGGTGAAGTTAAAT
GTGAATTTGAACACAAGGTCATAAAAGAAAAGGTTCCCTCCAAGACCTATTCTGAAACAGAAATGTTCTAGCCTAG
AGAAACTAAGACTGAAAGAAGACAAAAAATTGAAGAGAAAGATCCAAAAAAGAAGCAAAAAAGTTAGCACAAG
AAAGAATGGAGGAGGACTTAAGAGAAAGTAATCCACCCAAAAATGAAGAGCAGAAAGAACTGTAGACAATGTTT
AGCGTTGTCAGTTCCCTTGATGACAGAATTCTACAGTGTATAAAGCAGTATGCTGACAAGATTAAATCCGGCATA
AGAATACAGCCATGCTTCTCAAAGAATTGCTTTCTTGGAAGTTTTGAGCACAGAAGACTATACAACCTGTTTTT
CTAGCAGAAATTTTCTAAATGAAGCAGTGGACTATGTTATTGCCACTTGATTCAAGAAAATAACAGAGTAAAGA
CAAGAATATTTCTGCATGTTTTGAGTGAGCTTAAAGAAGTGGAGCCCAAATTAGCCGCTGGATCCAAAACTTA
ATAGCTTTGGCTTAGATGCCACAGGAACCTTTCTTTCTCGTTATGGAGCATCTCTTAAACTGCTTGATTTTAGTA
TCATGACTTTCCTCTGGAATGAGAAATATGGTCACAACTAGACTCTATAGAAGGAAAGCAACTTGATTATTTCT
CTGAGCCAGCATCATTGAAGGAAGCCCGTTGTTTTAATATGGCTGCTAGAAGAACACAGAGACAAGTTCCAGCAT
TGCATAGTGCTTTAGATGAATCTTTGATATAATGGACAGCCGCTGTACTGTGTTAAGGAAACAAGATAGTGGTG
AAGCACCGTTTAGTTCAACCAAGGTGAAAAACAAAGCAAGAAAAAGAAGCCAAAGGATTCAAAGCCTATGTTAG
TTGGGTCTGGAACAACTTCAGTAACCTCAAATAATGAGATCATCACTTCAAGTGAAGACCATAGCAATCGAAATT
CAGATTCTGCAGGCCCATTTGCAGTGCCTGACCATCTTCGGCAAGATGTAGAAGAATTCGAAGCTCTCTATGACC
AACACAGTAACGAATATGTTGTCCGCAATAAGAAGCTATGGGACATGAACCCAAAAACAAATGTTCAACTCTAT
ATGATTACTTCTCTCAGTTTTTGGAGGAACATGGTCCCTTGGACATGAGTAACAAGATGTTCTCTGCAGAATATG
AGTTTTTCCAGAGAAACTCGACAGATACTAGAAAAAGCAGGAGGTTTAAACCTTTCTCTTGGGATGCCCTC
GTTTTGTGTGATTGACAACCTGTATTGCACCTGAAGAAGTTGCATCACGGCTCAAGAAAAAAGGAAGAAGAAA
ACATTAAAAACAAAGTAGAAGAAATTTCAAAGCAGGGGAGTATGTACGAGTTAACTACAACCTGAATCCAGCTG
CTAGGGAATTTAAACCAGATGTAAAGTCTAAACCAGTGTGAGATTATCTTCAGCACCAGCTTTTGAAAATGTGA
AACCCAAACCTGTGTCTGCAATTTCTCCCAAGCCAGCTTGTGAAGATGTGAAGGCCAAACCAGTATCCGACAATT
CTTCTAGACAAGTTTCTGAGGATGGGCAACCCAAAGGGTCTCTTCTAATTCTCCTAAACCAGGCTCTGAGGATG
CAAATTACAAGCGAGTCTCCTGTAATCCCCCAACCGGTTCTTGAGGATGTGAACCAACTTATTGGGCTCAAT
CCCATTGGTTCACAGGATACTGTACGTATCTTCTTTCCAGAGATTTGATATCACCCAGACACCGCCAGCATACA
TAAACGTGTTACCAGTTTGGCCAGTACACCAGCATATATACACCCTTGCCAGCCTTTCTCCTGAATATCAGC
TACCAAGATCAGTACCAGTGGTGCCGTCTTTTGTAGCCAATGACAGAGCAGATAAAAAATGCTGCTGCCTATTTTG
AGGGTCATCATTTGAATGCTGAGAATGTTGCTGGTCACCAGATTGCCTCTGAAACACAGATCCTTGAGGGCTCTT
TGGGAATATCTGTAAAGTCACACTGCAGCACAGGTGATGCTCATAACAGTCTGAGTGAGTCTAACAGAAATGATG
AGCACTGTGGAATTTCTAACACAAATGTGAAGTAATTCAGAAAGCACCAGTGCAGTAACAAACATTCCACACG
TGCAGATGGTTGCCATACAGGTATCTTGAACATAATACACCAAGAAGTCAATACTGAGCCATATAATCCTTTTG
AGGAACGACAAGGGGAAATTTACGGGATTGAAAAGGAGCACCAAGTATTACAAGACCAACTTCAAGAAGTGTATG
AAAATTATGAGCAGATAAACTTAAGGGCTTAGAAGAGACCAGGGACCTGGAAGAGAGATTGAAAAGGCACTTAG
AAGAAAACAAGATCTCAAAGACGGAATTAGATTGGTTCCCTTCAAGATTTGGAAAAGAGAAATTAATAATGGCAAC
AGGAAAAAAGAAATCCAAGAAAGACTAAATCACTGAAGAAGAAATTAATAAGGTTTCAATGCCAGTGAAA
TGTATACCCAGAAAAATGATGGAAAGGAAAAGGAACATGAATTACATCTGGATCAGTCCCTTGAAATCAGCAACA
CACTTACAAATGAGAAAAATGAAAATAGAAGAGTATATAAAGAAAGGGAAAGAGGATTATGAAGAGAGTCATCAGA
GAGCTGTGGCTGCAGAGGTATCCGTACTTGAAAACCTGGAAGGAGAGTGAAGTGTATAAGCTACAGATCATGGAGT
CACAAGCAGAAGCCTTTCTGAAGAAGCTGGGGCTGATTAGCCGTGATCCTGCAGCATATCCTGACATGGAGTCTG
ATATACGTTTATGGGAATTGTTTCTTTCTAATGTTACAAAAGAAATTGAGAAAGCAAAGTCTCAGTTTGAAGAAC
AAATTAAGGCAATTAATAATGGTTCTCGGCTCAGTGAACCTTTCTAAAGTGCAGATTTCTGAGCTTTCAATTCCTG
CCTGTAACACGGTTTATCCCGAGTTACTCCCTGAGTCTTCAGGCCACGATGGCCAAGGGCTTGTGACTTCTGCAA
GCGACGTGACTGGAACACACGAGCATTACAGGGATCCTAGTGTGTTCTCTGCTGGTGATTCCCCAGGGGAGG
CTCCTTCTGCGCTGTTGCCAGGGCCACCCCTGGTCAAGCCACTCAGCTGACAGGGCCAAACGGGCTG
GCCAGGCAGCTCTGTGAGAAGCAAGCCCTGTGGCTGATCGGAAGCAGCCTGTTCCCTCAGGACGTGCTGCGCGTT
CAAGCCAGTCTCCAAAAAGCCGTTCAATAGTATTATTGAGCACCTGTGAGTGGTATTCCCATGTTACAACAGCA
CTGAGCTTGCTGGTTTTATTAAAAAGTGCGAAGCAAAAACAAGAACTCACTCTCAGGATTGAGTATTGATGAAA
TTGTCCAAGAGTGACAGAACACATTCTAGATGAACAGAAAAAGAAAAAGCCAAACCCAGGAAAGGACAAGAGGA

6388/6881
FIGURE 5896C

CTTATGAGCCCAGCTCTGCCACCCCGTGACCAGGTCTCTCCAGGGCTCACCCCTCGGTGGTTGTTGCACCATCAC
CCAAAACCAAGGGGCAGAAAGCAGAAGATGTCCCTGTGAGGATTGCACTGGGTGCAAGTTCCTGTGAAATATGCC
ACGAGGTGTTCAAATCAAAAACGTGCGTGTGCTCAAATGTGGGCACAAGTATCACAAAGGGTGCTTTAAGCAGT
GGCTTAAAGGGCAGAGCGCTTGCCCGGCCTGCCAGGGTCGTGATCTCCTGACAGAAGAGTCACCTTCTGGAAGAG
GCTGGCCAGTCAGAATCAGGAGCTGCCTTCCTGCTCTTCTAGGTAGTCACACTTCACTAAAGTGTATCCACCA
GTGTGTTGAATCCGAAGAATGACAATTTTCTACCACTGGTGTAAAAAACAAACATTTGAAGACCCTTGTGCATTG
TGTGTCACAAAGCTAAATACATGGAATCGTTAATATCGCTGATATTAAGTAATTTCCCCACTCTGAGTGAATAC
TTTGATGATTGCCAACAGTGGCTAATAAAATGACGGCTACCACACTCATGGGTCACTGGGGCTGCGCAGGGCTCT
TTGAGGTGGGTGGCTTCTTTTGAAAGTACTATGAACGTCTCGAAGCAGTATTCTAGTGATAAGAATTCTTAACA
TAGCCAAGCGCCCCACGTTTGTTCCCACGTTTGTTCCTTTTCTGTTTGAAAAACCTGTTCTGGTAGCTCCAC
AAGAGAGATGATACTGACTTTTTTAAATTTTTTACAAGAGTCTGTATTCTTGATATGCCTATATTTTCTCAAAG
ATTCTGCATTTTAAGGATGGGCATAAGCAAACCTATATTTTAATAATTTATAGTTAATGTTAAAAATATTGGCTGAT
TTAGACCAAAAAGATTCAAATCTCCTCTTTGTGAAATCCCATCTGCATTTGATTTTTTATTATTTTATGTTCCCC
GTTAGATTGTTTTAAGTGTTTGCTTTTCATCTTTTATAGATGTAATCTGATTTTCAAAAATCATTAACTTTTT
AATTAGTATCGACTAAGACTTTTTTCCCCCTGGAATCGAGGCTGTGTGTCCGTCATCCCAGCCCCCGGTTGGAGCC
TGCTCTTTGAACTCCGCTGCCTTCCTTAGCAGCTTCTGTCTCTTCTGTGAGTCAGTCAGCGAGTGCTTGGGATC
CGCATCCAGCCGTGCTGAGCACACAACAGGCTGTGTGTGGAAATGGCCACCACCATTCTCCTTCCCCACCCACC
ACAAAAAGAGAAGCTGTGTCTTTAGACAACCTGAGGTATCTGTGTTACAATCGTTCTGTGTTTGATATTTGTGT
AAAGTATGCATGCAGTCTTGTACTGTGACCTAAGAACAAAACCTGTAAGTGCATTAGAAACCATGAAAAATTAGA
TATTGTTTTGTGACTTTTAGACAGTGGTAAATATAGAACCATGAATTCTGGTCACATTCCATTTCTCTCCAACAT
GAAGGATCAAAAAATGTTTTTCAATGTGTTCTTTGTTCCACTGGAACTTAGAGTCATGAGTTTATGAGCTGATT
TGGTCACCTTCCTCTGCCTTTGTTCACTGTGAGTTCTGATGTCTTAGTGACTTAGTTCTTAGAAGCTCACGCCTT
AGTTTGAAACAGATTCTCCACGGTGGTCCCCAAAACACTGTCTGCATATCCATAAGAATTGAGCGCTATGGGTGT
TAACGTGCATGAGGATCAGTTTGCAGCAGCAAGTACAAAAGGAGAAGAGGAACATCCGTTGAATGAGTGTGTTTT
GTACATAACTTCAGATACTTGTGAACATGCCTTATATTTGTCCAACAACCTGTCAGAATAAAGAACATTCTAAAT
GAG

6389/6881
FIGURE 5897

MDNFAEGDFTVADYALLEDCPHVDDCVFAAEFMSNDYVRVTQLYCDGVGVQYKDYIQSERNLEFDICSIWCSKPI
SVLQDYCDAIKINIFWPLLQFHQNSSVISRLHPCVDANNSRASEINLKKLQHLELMEDIVDLAKKVANDSFLIGG
LLRIGCKIENKILAMEEALNWIYAGDVTILTKLGSIDNCWPMLSIFFTEYKYHITKIVMEDCNLLEELKTQSCM
DCIEEGELMKMKGNEEFSKERFDIAIIYYTRAIEYRPENYLLYGNRALCFLRTGQFRNALGDGKRATILKNTWPK
GHYRYCDALSMLGEYDWALQANIKAQKLCNDPEGIKDLIQQHVKLQKQIEDLQGRANKDPIKAFYENRAYTPR
SLSAPIFTTSLNFVEKERDFRKINHEMANGGNQNLKVADEALKVDDCDCHPEFSPPSSQPPKHGKQKSRNNESE
KFSSSSPLTLPADLKNILEKQFSKSSRAAHQDFANIMKMLRSLIQDGYMALLEQRCRSAAQAFTELLNGLDPQKI
KQLNLAMINYVLVYGLAISLLGIGQPEELSEAENQFKRIIEHYPSEGLDCLAYCGIGKVYLKKNRFLEALNHFE
KARTLIYRLPGVLTWPTSNVIEESQPKIKMLLEKFVEECKFPVPDAICCYQKCHGYSKIYITDPDFKGF I
RISCCQYCKIEFHMNCWKKLKTTFNDKIDKDFLQGICLTPDCEGVISKIIFSSGGEVKCEFEHKVIEKVPFR
PILKQKCSSLEKLRLKEDKKLKRKIQKKEAKKLAQERMEEDLRESNPPKNEEQKETVDNVQRCQFLDDRILQCIK
QYADKIKSGIQNTAMLLKELLSWKVLSTEDYTTCSRNFLNEAVDYVIRHLIQENNRVKTRIFLHVLSELKEVE
PKLAAWIQKLN SFGLDATGTFFSRYGASLKLDFSIMTFLWNEKYGHKLD SIEGKQLDYFSEPASLKEARCLIWL
LEEHRDKFPALHSALDEFFDIMDSRCTVLRKQDSGEAPFSSTKVKNKSKKKKPKDSKPMVLVSGTTSVTSNNEII
TSSDHNSNRNSDSAGPFAVPDHLRQDVVEEFALYDQHSNEYVVRNKKLWDMNPKQKCSSTLYDYFSQFLEEHPD
MSNKMFSAEYEFFPEETRQILEKAGGLKPFLLGCPRFVVIDNCIALKKVASRLKKKRKKKNIKTKVEEISKAGEY
VRVKLQLNPAAREFKPDVKSKPVSDSSAPAFENVKPKPVSANSPKACEDVKAKPVSDNSSRQVSEDGQPKGVS
SNSPKPGSEDANYKRVSCNSPKPVLEDVKPTYWAQSHLVTGYCTYLPFQRFDITQTPPAYINVLPGLPQYTSIYT
PLASLSPEYQLPRSVPVVPSFVANDRADKNAAAYFEGHHLNAENVAGHQIASETQILEGSLGISVKSHCSTGDAH
TVLSESNRNDEHCGNSNNKCEVIPESTSAVTNIPHVQMVAIQVSWNIHQEVNTEPYNPFEEQGEISRIEKEHQ
VLQDQLQEVYENYEQIKLKGLEETRDLEEKLRHLEENKISKTELDWFLQDLEREIKKWQOEKKEIQERLKS LKK
KIKKVSNASEMYTQKNDGKEKEHELHLDQSLEISNTLTNEKMKIEEYIKKGKEDYEESHQRAVAAEVSVLENWKE
SEVYKLQIMESQAEAFLLKGLISRDPAAYPDMESEDIRSWELFLSNVTKEIEKAKSQFEEQIKAIKNGSRLSELS
KVQISELSFPACNTVHPELLPESSGHDGQGLVTSASDVTGNHAALHRDP SVFSAGDSPGEAPSALLPGPPPGQPE
ATQLTGPKRAGQAALSERSPVADRKQPVPPGRAARSSQSPKKPFNSIEHLSVVFPCYNSTELAGFIKKVRSKNK
NSLSGLSIDEIVQRVTEHILDEQKKKKPNPGDKRTYEPSSATPVTRSSQGSPSVVAPSPKTKGQKAEDVPVRI
ALGASSCEICHEVFKSKNVRVLKCGHKYHKGCFKQWLKGQSACPACQGRDLLTEESPSGRGWPSQNOELPSCSSR

6390/6881
FIGURE 5898

CTCGCGCAAGCGGCGTGCGGTCCCGCGGCGCTGCAGTTGTGTCCAGCCGGTCACGGGGCGGCTATGGCGGCCACG
TTCTTCGGAGAGGTGGTGAAGGCGCCGTGCCGAGCTGGGACTGAGGACGAAGAGGAGGAGGAGGGGGCGGAGG
GAGACGCCCCGAGGACAGGGAGGTGCGTCTGCAGCTGGCGCGGAAGAGGGAAGTGCGGCTCCTTCGAAGACAAACA
AAAACATCTTTGGAAGTTTCTTTGCTAGAAAAATATCCGTGCTCCAAGTTTATAATTGCTATAGGAAATAATGCA
GTAGCATTTCTGTCAATCATTTGTTATGAATTCAGGAGTCTGGGAGGAAGTTGGTTGTGCCAAACTCTGGAATGAA
TGGTGTAGAACAACAGACACTACACATCTGTCCTCCACAGAGGCTTTTTGTGTGTTTTATCATCTAAAATCCAAT
CCCTCGGTTTTTCTCTGTCAGTGCAGTTGCTATGTTGCAGAAGATCAACAGTATCAGTGGCTGGAAAAGGTTTTT
GGCTCTTGTCCAAGGAAGAACATGCAGATAACTATTCTCACATGTCGACATGTTACCGATTATAAAACCTCAGAA
TCCACCGGCAGCCTTCCTTCTCCTTTCTGAGAGCCCTAAAAACACAGAATTTCAAAGACTCGGCGTGTTGTCCA
TTGCTAGAACAAACCGAATATAGTACACGACCTTCCTGCAGCAGTTCTAAGCTACTGTCAAGTATGGAAAATCCCA
GCAATTCTGTACTTGTGTTATACTGATGTGATGAAATTAGACCTAATCACAGTGGAAAGCTTTTAAGCCTATACTT
TCTACCAGAAGCTTGAAGGGTTTGGTTAAGAATATTCCCCAAAGCACTGAGATACTAAAGAAATTGATGACAACA
AATGAGATTCAGAGTAACATTTATACATGATCTTAAACATTGTTTTGTAGTGTATATTACTTGTCCATTCCTTTA
AGGGGAGCAGCCTGCACTCTTTTGTAGATTACTTTTGGGGGATATATTTTGAGAATGATGAAACGGAATAAAATT
GTAAAAAACTAAAAAAAAAAAAAAAAAAAAA

6391/6881
FIGURE 5899

MAATFFGEVVKAPCRAGTEDEEEEEEGRRETPEDREVRLLQLARKREVRLRRQTKTSLEVSLLEKYPCKFI
GNNVAFLSSEVMNSGVWEEVGCALWNEWCRRTDTHLSSTEAFVCFYHLKSNPSVFLCQCSCYVAEDQQYQWL
EKVFGSCPRKNMQITILTCRHVTDYKTSESTGSLPSPFLRALKTQNFKDSACCPLEQPNIVHDLPAAVLSYCQV
WKIPAILYLCTDVMKLDLITVEAFKPILSTRSLKGLVKNIPOSTEILKKLMTTNEIQSNIYT

6392/6881
FIGURE 5900

CGCGGCGGCTGGCGTCGGGAAAGTACAGTAAAAAGTCCGAGTGCAGCCGCCGGGCGCAGGATGGGATCCGGCTCC
TCCAGCTACCGGCCCAAGGCCATCTACCTGGACATCGATGGACGCATTGAGAAAGTAATCTTCAGCAAGTACTGC
AACTCCAGCGACATCATGGACCTGTTCTGCATCGCCACCGGCCTGCCTCGGAACACGACCATCTCCCTGCTGACC
ACCGACGACGCCATGGTCTCCATCGACCCACCATGCCCGCGAATTCAGAACGCACTCCGTACAAAGTGAGACCT
GTGGCCATCAAGCAACTCTCCGCTGGTGTGAGGACAAGAGAACCACAAGCCGTGGCCAGTCTGCTGAGAGACCA
CTGAGGGACAGACGGGTTGTGGGCCTGGAGCAGCCCCGGAGGGAAGGAGCATTGAAAGTGGACAGGTAGAGCCC
AGGCCCAGAGAGCCCCAGGGCTGCTACCAGGAAGGCCAGCGCATCCCTCCAGAGAGAGAAGAATTAATCCAGAGC
GTGCTGGCGCAGGTTGCAGAGCAGTTCTCAAGAGCATTCAAAATCAATGAACTGAAAGCTGAAAGTTGCAAATCAC
TTGGCTGTCTAGAGAAACGCGTGGAATTGGAAGGACTAAAAGTGGTGGAGATTGAGAAATGCAAGAGTGACATT
AAGAAGATGAGGGAGGAGCTGGCGGCCAGAAGCAGCAGGACCAACTGCCCTGTAAGTACAGTTTTTTGGATAAC
CACAAGAAGTTGACTCCTCGACGCGATGTTCCCACTTACCCCAAGTACCTGCTCTCTCCAGAGACCATCGAGGCC
CTGCGGAAGCCGACCTTTGACGTCTGGCTTTGGGAGCCCAATGAGATGCTGAGCTGCCTGGAGCACATGTACCAC
GACCTCGGGCTGGTCAGGGACTTCAGCATCAACCCTGTCACCTCAGGAGGTGGCTGTTCTGTGTCCACGACAAC
TACAGAAACAACCCCTTCCACAACCTCCGGCACTGCTTCTGCGTGGCCCAGATGATGTACAGCATGGTCTGGCTC
TGCAGTCTCCAGGAGAAGTTCTCACAAACGGATATCCTGATCCTAATGACAGCGGCCATCTGCCACGATCTGGAC
CATCCCGGCTACAACAACACGTACCAGATCAATGCCCGCACAGAGCTGGCGGTCCGCTACAATGACATCTCACCG
CTGGAGAACCACCACTGCGCCGTGGCCTTCCAGATCCTCGCCGAGCCTGAGTGCAACATCTTCTCCAACATCCCA
CCTGATGGGTTCAAGCAGATCCGACAGGGAATGATCACATTAATCTTGGCCACTGACATGGCAAGACATGCAGAA
ATTATGGATTCTTTCAAAGAGAAAATGGAGAATTTTACTACAGCAACGAGGAGCACATGACCCTGCTGAAGATG
ATTTTGATAAAATGCTGTGATATCTCTAACGAGGTCCGTCCAATGGAAGTCGCAGAGCCTTGGGTGGACTGTTTA
TTAGAGGAATATTTTATGCAGAGCGACCGTGAGAAGTCAGAAGGCCTTCCTGTGGCACCCTTCATGGACCGAGAC
AAAGTGACCAAGGCCACAGCCAGATTGGGTTTCATCAAGTTTGTCTGATCCCAATGTTTGAACAGTGACCAAG
CTCTTCCCCATGGTTGAGGAGATCATGCTGCAGCCACTTTGGGAATCCCGAGATCGCTACGAGGAGCTGAAGCGG
ATAGATGACGCCATGAAAGAGTTACAGAAGAAGACTGACAGCTTGACGTCTGGGGCCACCGAGAAGTCCAGAGAG
AGAAGCAGAGATGTGAAAAACAGTGAAGGAGACTGTGCCCTGAGGAAAAGCGGGGGCGTGGCTGCAGTTCTGGACG
GGCTGGCCGAGCTGCGCGGGATCCTTGTGCAGGGAAGAGCTGCCCTGGGCACCTGGCACCACAAGACCATGTTTT
CTAAGAACCATTTTGTTCACCTGATACAAAAAAAAAAAAAAAAA

6393/6881
FIGURE 5901

MSGSSSYRPKAIYLDIDGRIQKVIFSKYCNSSDIMDLFCIATGLPRNTTISLLTTDDAMVSIDPTMPANSERTP
YKVRPVAIKQLSAGVEDKRITTSRGQSAERPLRDRRVGLEQPRREGAFESGQVEPRPREPQGCYQEGQRIPPERE
ELIQSVLAQVAEQFSRAFKINELKAEVANHLAVLEKRVELEGLKVVEIEKCKSDIKKMREELAARSSRTNCPCKY
SFLDNHKKLTPRRDVPTYPKYLLSPETIEALRKPTFDVWLWEPNEMLSCLEHMYHDLGLVRDFSINPVTLRRLWF
CVHDNYRNNPFHNRHCF CVAQMMYSMVWLCSLQEKFSQTDILILMTAAICHDLDPGYNNTYQINARTELAVRY
NDISPLENHHCAVAFQILAEPECNIFSNIPPDGFKQIRQGMITLILATDMARHAEIMDSFKEKMFNFDYSNEEHM
TLLKMILIKCCDISNEVRPMEVAEPWVDCLEEFYMQSDREKSEGLPVAPFMDRDKVTKATAQIGFIKFLIPMF
ETVTKLFPMVEEIMLQPLWESRDYEELKRIDDAMKELQKKTDSLTSGATEKSRERSRDVKNSEGDCA

6394/6881
FIGURE 5902

CCACGAGACATTGGCCGGCGCCGGCCTCCGCCCCCGCCTCTCCGCCAATCACCGCCCGCCTGCTCCCCCTCGCCGT
GGGTCCCCGCGAGGCCGCCACCCCGGGGTGCGCGTCTCCGCCTCGCCGCGAGTCGGGGCAGCCGCTCGCCCCCTCTT
TTCCATGTATCCGTCCAGGATCCCATGACAGATTCTGTTGTCACGTCTCCTTACAGAGTTTGAGCGGTGCTGAAC
TGTCAGCACCATCTGTCCGGTCCCAGCATGCCTTCTGAGACCCCCCAGGCAGAAGTGGGGCCACAGGCTGCCCC
CACCGCTCAGGGCCACACTCGGCGAAGGGGAGCCTGGAGAAGGGGTCCCCAGAGGATAAGGAAGCCAAGGAGCCC
CTGTGGATCCGGCCCGATGCTCCGAGCAGGTGCACCTGGCAGCTGGGCCGGCCTGCCTCCGAGTCCCCACATCAC
CACACTGCCCCGGCAAAATCTCCAAAATCTTGCCAGATATTCTGAAGAAAATCGGGGACACCCCTATGGTCAGA
ATCAACAAGATTGGGAAGAAGTTCGGCCTGAAGTGTGAGCTCTTGGCCAAGTGTGAGTTCTTCAACGCGGGCGGG
AGCGTGAAGGACCGCATCAGCCTGCGGATGATTGAGGATGCTGAGCGCGACGGGACGCTGAAGCCCGGGGACACG
ATTATCGAGCCGACATCCGGGAACACCGGGATCGGGCTGGCCCTGGCTGCGGCAGTGAGGGGCTATCGCTGCATC
ATCGTGATGCCAGAGAAGATGAGCTCCGAGAAGGTGGACGTGCTGCGGGCACTGGGGGCTGAGATTGTGAGGACG
CCCACCAATGCCAGGTTGCACTCCCCGGAGTCACACGTGGGGGTGGCCTGGCGGCTGAAGAACGAAATCCCCAAT
TCTCACATCCTAGACCAGTACCGCAACGCCAGCAACCCCTGGCTCACTACGACACCACCGCTGATGAGATCCTG
CAGCAGTGTGATGGGAAGCTGGACATGCTGGTGGCTTCAGTGGGCACGGGCGGCACCATCACGGGCATTGCCAGG
AAGCTGAAGGAGAAGTGTCTGGATGCAGGATCATTGGGGTGGATCCCGAAGGGTCCATCCTCGCAGAGCCGGAG
GAGCTGAACCAGACGGAGCAGACAACCTACGAGGTGGAAGGGATCGGCTACGACTTCATCCCCACGGTGCTGGAC
AGGACGGTGGTGGACAAGTGGTTCAAGAGCAACGATGAGGAGGCGTTACCTTTGCCCCGATGCTGATCGCGCAA
GAGGGGCTGCTGTGCGGTGGCAGTGCTGGCAGCACGGTGGCGGTGGCCGTGAAGGCCGCGCAGGAGCTGCAGGAG
GGCCAGCGCTGCGTGGTCATTCTGCCCCGACTCAGTGCAGCACTACATGACCAAGTTCTGAGCGACAGGTGGATG
CTGCAGAAGGGCTTTCTGAAGGAGGAGGACCTCACGGAGAAGAAGCCCTGGTGGTGGCACCTCCGTGTTTCAGGAG
CTGGGCCTGTCAGCCCCGCTGACCGTGCTCCCGACCATCACCTGTGGGCACACCATCGAGATCCTCCGGGAGAAG
GGCTTCGACCAGGCGCCCGTGGTGGATGAGGCGGGGGTAATCCTGGGAATGGTGACGCTTGGGAACATGCTCTCG
TCCCTGCTTGCCGGGAAGGTGCAGCCGTCAGACCAAGTTGGCAAAGTCATCTACAAGCAGTTCAAACAGATCCGC
CTCACGGACACGCTGGGCAGGCTCTCGCACATCCTGGAGATGGACCACTTCGCCCTGGTGGTGCACGAGCAGATC
CAGTACCACAGCACCGGGAAGTCCAGTCAGCGGCAGATGGTGTTCGGGGTGGTCACCGCCATTGACTTGCTGAAC
TTCGTGGCCGCCAGGAGCGGGACCAGAAGTGAAGTCCGGAGCGCTGGGCGGATGTTTCACCAAGGAAATATTGA
GAGAGAAGTCGGCCAGGTAGGATGAACACAGGCAATGACTGCGCAGAGTGGATTAAAGGCAAAAGAGAGAAGAGT
CCAGGAAGGGGCGGGGAGAAGCCTGGGTGGCTCAGCATCCTCCACGGGCTGCGCCGTCTGCTCGGGGCTGAGCTG
GCGGGAGCAGTTTGCGTGTGTTGGGTTTTTAATTGAGATGAAATTCAAATAACCTAAAAATCAATCACTTGAAAG
TGAACAATCAGCGGCATTTAGTACATCCAGAAAGTTGTGTAGGCACCACCTCTGTCACGTTCTGGAACATTCTGT
CATCACCCCGTGAAGCAATCATTTCCCTCCCGTCTTCCCTCCCTGGCAACTGCTGATCGACTTTGTGTCTC
TGTTGTCTAAAATAGGTTTTCCCTGTTCTGGACATTTCAATAAATGGAATCACAC

6395/6881
FIGURE 5903

CCCGAGGGCGTCGGCAGGGTCGGCGGCGTCGGCAGCAGTGTGACGGCAGCGGCGGCGGGGTGGGAAATGGCG
GAGTATCTGGCCTCCATCTTCGGCACCGAGAAAGACAAAGTCAACTGTTTCAATTTTCAAAATTGGAGCATGT
CGTCATGGAGACAGGTGCTCTCGGTTGCACAATAAACCGACGTTTAGCCAGACCATTGCCCTCTTGAACATTTAC
CGTAACCCCTCAAACTCTTCCCAGTCTGCTGACGGTTTGCGCTGTGCCGTGAGCGATGTGGAGATGCAGGAACAC
TATGATGAGTTTTTTGAGGAGGTTTTTACAGAAATGGAGGAGAAGTATGGGGAAGTAGAGGAGATGAACGTCTGT
GACAACCTGGGAGACCACCTGGTGGGGAACGTGTACGTCAAGTTTCGCCGTGAGGAAGATGCGGAAAAGGCTGTG
ATTGACTTGAATAACCGTTGGTTTAATGGACAGCCGATCCACGCCGAGCTGTCACCCGTGACGGACTTCAGAGAA
GCCTGCTGCCGTCACTATGAGATGGGAGAATGCACACGAGGCGGCTTCTGCAACTTCATGCATTTGAAGCCCATT
TCCAGAGAGCTGCGGCGGGAGCTGTATGGCCGCCGTCGCAAGAAGCATAGATCAAGATCCCGATCCCGGGAGCGT
CGTTCTCGGTCTAGAGACCGTGGTCGTGGCGGTGGCGGTGGCGGTGGTGGAGGTGGCGGCGGACGGGAGCGTGAC
AGGAGGCGGTGAGAGATCGTGAAAGATCTGGGCGATTCTGAGCCATGCCATTTTACCTTATGTCTGCTAGAAA
GTGTTGTAGTTGATTGACCAAACAGTTCATAAGGGGAATTTTTTTTAAAAACAACAAAAAAAAAACATACAA
AGATGGGTTTCTGAATAAAATTTGTAGTGATAACAGT

6396/6881
FIGURE 5904

MAEYLASIFGTEKDKVNCSFYFKIGACRHGDRCSRLHNKPTFSQTIALLLNIYRNPQNSSQSADGLRCAVSDVEMQ
EHYDEFFEEVFTEMEEKYGEVEEMNVCDNLGDHLVGNVYVKFRREEDAEKAVIDLNNRWFNGQPIHAELSPVTD
REACCRQYEMGECTRGGFCNFMHLKPI SREL RRELYGRRRKKHRSRSRSRERRSRSDRGRGGGGGGGGGGGGRE
RDRRRSRDRERSGRF

6397/6881
FIGURE 5905

CGGAGCCGCCCGCTGAGGTCAGAAGGAGGCGTCTGCGCTGATCGGGTCCGCCGCGGCCAGAGCCAGAGTCGCAG
CCGAGGGGAGCCGGGGCCGGAGCCCGAGCCCGAGCCGAGCCGGAGCCCGAGCGAGCGGCGGAGACCGTGCCCCCG
CCTCGGCCCCGCGCCGCCGCGGCCAGGCCCCGGCATGGAGGAGGAGTGCCGGGTGCTCTCCATACAGAGCCACGTC
ATCCGCGGCTACGTGGGCAACCGGGCGGCCACGTTCCCGCTGCAGGTTTTGGGATTTGAGATTGACGCGGTGAAC
TCTGTCCAGTTTTCAAACCACACAGGCTATGCCCCTGGAAGGGCCAAGTGCTGAATTCAGATGAGCTCCAGGAG
TTGTACGAAGGCCTGAGGCTGAACAACATGAATAAATATGACTACGTGCTCACAGGTTATACGAGGGACAAGTCG
TTCCTGGCCATGGTGGTGGACATTGTGCAGGAGCTGAAGCAGCAGAACCCCAAGGCTGGTGTACGTGTGTGATCCA
GTCTTGGGTGACAAGTGGGACGGCGAAGGCTCGATGTACGTCCCGGAGGACCTCCTTCCCGTCTACAAAGAAAAA
GTGGTGCCGCTTGCGAGACATTATCACGCCCAACCAGTTTGAGGCCGAGTTACTGAGTGGCCGGAAGATCCACAGC
CAGGAGGAAGCCTTGCGGGTGATGGACATGCTGCACTCTATGGGCCCCGACACCGTGGTCAACACCAGCTCCGAC
CTGCCCTCCCCGAGGGCAGCAACTACCTGATTGTGCTGGGGAGTCAGAGGAGGAGGAATCCCGCTGGCTCCGTG
GTGATGGAACGCATCCGGATGGACATTCGCAAAGTGGACGCCGTCTTTGTGGGCACTGGGGACCTGTTTGCTGCC
ATGCTCCTGGCGTGGACACACAAGCACCCCAATAACCTCAAGGTGGCCTGTGAGAAGACCGTGTCTACCTTGCAC
CACGTTCTGCAGAGGACCATCCAGTGTGCAAAGCCCCAGGCCGGGGAAGGAGTGAGGCCAGCCCCATGCAGCTG
GAGCTGCGGATGGTGCAGAGCAAAAGGGACATCGAGGACCCAGAGATCGTCGTCCAGGCCACGGTGCTGTGAGGG
CCCCGCCGCTTGCCCGTGACACGCAGCGCGTTGGTGTCTCCGTGTTTGTCCCTGTGAAAACATGTAACGTCTGCC
TTAGAGCCATGACCGAACTTGATATTTTTTTCTTTCATGAGTGTCCGGCATCTGCTGGTCTTCATTGTGAAACG
TGCCAGTCGTGCTTTGTGAAAATAACAAAGTGGTCACAAAAAAAAAAAAAAAAAAAA

6398/6881

FIGURE 5906

MEEECRVLSIQSHVIRGYVGNRAATFPLQVLGFEIDAVNSVQFSNHTGYAHWKQVLNSDELQELYEGLRLNNMN
KYDYVLTGYTRDKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGSMYVPEDLLPVYKEKVVPLADIITPN
QFEAEELSGRKIHSQEEALRVMDMLHSMGPD TVVITSSDLPS PQGSNYLIVLGSQRRRNPA GSVVMERIRMDIRK
VDAVFVGTGDLFAAMLLAWTHKHPNNLKVACEKTVSTLHHVLQRTIQCAKAQAGEGVRPSPMQLELRMVQSKRDI
EDPEIVVQATVL

6399/6881
FIGURE 5907

GCGTGCTCAGTGTGCTGGGTACCAGGCGACTCCGGGACAGGGGGTCTCGGCCGTCGGCGTCATGGTTTCGCGCGT
GCAGTCCCCGCTGAGATCCAGCTGGCTCAGCGCCTGGCGGGGAATGAGCAGGTGACCCGGGACCGGGCGGTGAG
GAAGCTCCGGAAATACATCGTCGCCAGGACTCAGCGGGCCGAGGTGGTTTTACGCACGACGAGCTGCTGAAGGT
GTGGAAAGGACTGTTTTATTGCATGTGGATGCAGGACAAGCCACTCCTCCAGGAAGAATTAGGAAGGACTATTTT
CCAGCTCGTTTCATGCTTTTCAGACCACGGAGGCGCAGCACCTGTTTCTTCAGGCCTTCTGGCAGACCATGAATCG
CGAGTGGACGGGCATTGACAGGCTGCGCCTGGATAAATTCTACATGCTCATGCGGATGGTCTGAACGAGTCCTT
GAAGGTTCTGAAGATGCAAGGCTGGGAAGAAAGACAGATCGAGGAGCTGCTAGAGCTGCTGATGACTGAGATCCT
GCACCCACAGCAGCCAGGCCCCCAACGGTGTGAAGAGCCACTTCATCGAGATCTTCTGGAGGAGCTGACCAAAGT
GGGCGCCGAGGAGCTTACGGCAGACCAGAACCCTGAAGTTCATCGACCCCTTCTGCAGAATTGCTGCCCCGACC
GGATTCTTGGTTTTGAACAACATCACTCGAGGCATCTTTGAGACGATTGTGGAGCAGGCCCCGCTTGCCATTGA
AGACCTCCTGAATGAACTGGACACACAGGATGAGGAGGTGGCGTCGGACAGTGATGAGTCCTCTGAGGGTGGTGA
GCGTGGAGACGCGCTGTCCAGAAGAGGTCTGAGAAGCCGCGCCGAGGCTCCATCTGCAGGGCTGAACCTGAGGC
TGGTGAGGAGCAGGCAGGTGACGACAGGGACAGTGGCGGGCCCGTTCTCCAGTTTGACTACGAGGCAGTTGCTAA
CAGACTGTTTTGAAATGGCCAGCCGCCAGAGCACCCCTTCTCAGAACAGAAAGCGTCTCTACAAAGTGATCCGGAA
GCTGCAGGACCTGGCAGGAGGCATTTTCCCTGAAGATGAGATCCAGAGAAGGCCTGCAGGCGCCTGCTTGAAGG
GAGGCGGCAGAGAAGACGAAGAAGCAGAAGCGTCTGCTCAGGTTGCAGCAGGAGAGAGGGAAAGGTGAGAAGGA
GCCCCCGAGCCCGGGCATGGAGAGGAAGAGGAGCAGGAGGAGGGGTGTAGGGGCGGACCCCGAGGCGCGGGCAGA
GGCTGGTGAGCAGCCAGGCACAGCTGAGCGGGCCCTGCTCCGAGATCAGCCAGGGGCGGTGGCCAGAGAGGGGC
TCGCCAGAGAAGGAGGACACCTCGGCCCTGACCAGTGCCCGAGCAAAGGCGGCCAATGTCCAGGAGCCGGAGAA
GAAGAAGAAACGCAGGGAGTGATGTGGCCGGGCCAAGGACAGGCAGGGAGGGAGGCCAGGCCTCGCTTGACCCGC
GGGACGAGGCTGACCGGGCTGTTCTGTAGACTCAGGACCGTGGCTCCAGAACTCCTGTGCCAGGCGGGAGGGAAAG
GGCGGCACTGGAGAGATGGGCCCATCATTAGGGGCCAGCATCCAGGAACTGGACCTTTCCCGAGAGCCTCCGCC
TGTGGCTGTGATGACCTTGGGCCAGAAGGTCAAACCTCCGAAGACTGAACTCTGCCTGCAGCAGGACTGGCCGCC
CCTGCTGTGGGGGGTTTCAAAAAATAAATGCCGCGCAGCCCTTGCCAGGGGAAGTGTGCTTCAGGTGTGTCCTA
CGGACGTGTGGGAGGTGGCAGGCGCCAGCCTCCGAGCAGTGTGGTGGTTTTATATTATGTTTGTGGAAAAATCTT
GCAAGACATTTCTCCTTTCACAGAACTGCCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTTTTGCTTCCCCC
TCAATCTGGGGTCTAGAGTTGTGCAAGGAATTCAGCTCCAGTAAGGCCTGGATTGCCCCGGGGTGAGCGTGTGTGT
GGTGGGAAGACCTGGCTTCCGCGAGAGCCTTGTTCTGGAGGCAGGAGCGCCCCGCCATCCTGGGTACCCGCGGG
TCCGCAGGCTGCGCACCTCTTCCCTCAGCCAGGTACCCCTCAGCGTCTCCTGCCCCCTCTCCCCCTTCACACCT
GCTGGAGCCTGTGAGGGAGGTGGCGGGTCCCCACTGTGGCGACGGAGAGCTGACAGTAGCCCAGGGCTTTCCACC
TGCATGGAACAAGGGCCTGTCTGCCGCCAGCGCTGTGGCCACAGCCTGCATAGGTGACAAGGGGGCCGTGCGTTG
GGTTTTGCCCCGATCTTCTGTTCATGGGTGCCAGCCAGCCAGGCCGTGTGGGATCCAGCGAGAGGCCAGGGCT
TGGAGTGGGCCTGGGACCAGGAAGGACCTTAGGCTGTGGCTGGCCTTGTGTCAGACCCTGGACTGCATCCGGTTC
CCCAAAGCCCTGCTGCATTCGAGTGTCCCCAACCCCGGGCAGGTGGCACCTGGTGACACCTCCTTCAGTCCCAC
TCAGCTGGGCGGCCGGGGCAGGCTTAGGGCACAGTTAGGGGCCAAGGAGAGGGAAGGCCAGGGCCCCCTGTTCTAG
GGGTTAGGGTTCTTTCCCCAAAGGAACCTTAAAAAGACAAGCGTGGCCAGGCACAGTGGCTCACACCTGTAATCCC
AGCACTTTGGGAGGCCGAGGTGGCCAGATCACCTGAGGTGAGGAGTTTGTAGACCAGACTGACCAACATGGAGAAA
CCCCATCTCTACTAAAAATACAAAATTAGCCAGGCGTGGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCTG
AGGCAGGAGAATTGCTTGAACCTGGGAGGCAGAGGTTGTGGTGTAGCTAAGATCACGCCATTGCACTCCAGCCTGG
GCAACGAGAGGGAAACTCTGTTTC

6400/6881
FIGURE 5908

TCTATGAAACCAACATACATGGCGTTTGCATCACAGTTGGAGTCAGATGTGAGCCCGGAGGGCAGGTGTCTGGCT
TGTCCACCCGGAAGCCCTGAGGGCAGCTGTTCCCACTGGCTCTGCTGACCTTGTGCCTTGGACGGCTGTCCTCAG
CGAGGGGCGGTGCACCCGCTCCTGAGCAGCGCCATGGGCCTGCTGGCCTTCTGAAAGACCCAGTTCGTGCTGCAC
CTGCTGGTCGGCTTTGTCTTCGTGGTGAGTGGTCTGGTCATCAACTTCGTCCAGCTGTGCACGCTGGCGCTCTGG
CCGGTCAGCAAGCAGCTCTACCGCCGCTCAACTGCCGCTCGCACTACTCACTCTGGAGCCAACCTGGTCATGCTG
CTGGAGTGGTGGTCTGACGGAGTGACACTGTTACGGACCAGGCCACGGTAGAGCGCTTTGGGAAGGAGCAC
GCAGTCATCATCCTCAACCACAACTTCGAGATCGACTTCTCTGTGGGTGGACCATGTGTGAGCGCTTCGGAGTG
CTGGGGAGCTCCAAGGTCCTCGCTAAGAAGGAGCTGCTCTACGTGCCCCCTCATCGGCTGGACGTGGTACTTTCTG
GAGATTGTGTTCTGCAAGCGGAAGTGGGAGGAGGACCGGGACACCGTGGTGAAGGGCTGAGGCGCCTGTCGGAC
TACCCCGAGTACATGTGGTTTTCTCCTGTACTGCGAGGGGACGCGCTTCACGGAGACCAAGCACC GCTTAGCATG
GAGGTGGCGGCTGCTAAGGGGCTTCTGTCTCAAGTACCACCTGCTGCCGCGGACCAAGGGCTTCACCACCGCA
GTCAAGTGCCCTCCGGGGGACAGTCGCAGCTGTCTATGATGTAACCTGAACTTCAGAGGAAACAAGAACCCGTCC
CTGCTGGGGATCCTCTACGGGAAGAAGTACGAGGCGGACATGTGCGTGAGGAGATTCTCTGGAAGACATCCCG
CTGGATGAAAAGGAAGCAGCTCAGTGGCTTCATAAACTGTACCAGGAGAAGGACGCGCTCCAGGAGATATATAAT
CAGAAGGGCATGTTTCCAGGGGAGCAGTTTAAGCCTGCCCGAGGCCGTGGACCTCTGAACTTCCTGTCTCTGG
GCCACCATTCCTCTCTCTCCCTCTTCAGTTTTGTCTTGGGCGTCTTTGCCAGCGGATCACCTCTCCTGATCCTG
ACTTTCTTGGGGTTTGTGGGAGCAGCTTCCTTTGGAGTTTCGCAGACTGATAGGAGTAACTGAGATAGAAAAAGGC
TCCAGCTACGGAACCAAGAGTTTAAGAAAAAGGAATAATTAATGGCTGTGACTGAACACACGCGGCCCTGACGG
TGGTATCCAGTTAACTCAAAACCAACACAGAGTGCAGGAAAAGACAATTAGAACTATTTTTCTTATTAAGTG
GTGACTAATATTAACAAAACCTTGAGCCAAGAGTAAAGAATTGAGAAGGCCTGTCAGGTGAAGTCTTCAGCCTCCC
ACAGCGCAGGGTCCCAGCATCTCCACGCGCGCCCGTGGGAGGTGGGTCCGGCCGGAGAGGCCTCCCGCGGACGCC
GTCTCTCCAGAAGCTCCGCTTCCAAGAGGGACCTTTGGCTGCTTTCTCTCTCTTAACTTAGATCAAAATTTAAAAA
AAAAAAAAA

6401/6881
FIGURE 5909

MGLLAFLKTQFVLHLLVGFVVFVVSGLVINQVQLCTLALWPVSKQLYRRLNCRSLWSQLVLMLEWWSCTECTL
FTDQATVERFGKEHAVIILNHNFEIDFLCGWTMCERFGVLGSSKVLAKKELLYVPLIGWTWYFLEIVFCRKRKWE
DRDTVVEGLRRLSDYPEYMWFLLYCEGTRFTETKHRVSMEVAAAKGLPVLKYHLLPRTKGFTTAVKCLRGTVA
YDVTLNFRGNKNPSLLGILYGKKYEADMCVRRFPLEDIPLDEKEAAQWLHKLYQEKDALQEIYNQKGMFPGEQFK
PARRPWILLNFLSWATILLSPLFSFVLGVFASGSPLLIITFLGFVGAASFVRRRLIGVTEIEKGSSYGNQEFKKK
E

CGGCGACACAGTGCAGCGCGCGTGTATGAAGTTCGCTTACCGGTTTTCAAATTTGCTGGGTACGGTGTACCGGCGTG
GGAACCTAAATTTTACCTGCAATGGAATTCAGTTATCAGTCCCCTGGGCAATAGAGTCACTGTATTTGACCTTA
AAAACAACAAATCTGACACGCTGCCCTGGCCACTCGGTACAACGTCAAGTGGTGGGGCTGTCCCCGGATGGCC
GCCTCGCTATCATCGTCGATGAAGGGGGCGATGCGCTGCTGGTACAGCTGGTCTGCAGGTCTGTGCTGCACCAC
TCCACTTCAAGGGCTCTGTGCACAGTGTGTCTTCTCCCCTGATGGCAGGAAGTTTGTGTGCACAAAGGGTAACA
TTGCCCAGATGTATCATGCCCCTGGAAGAAGCGGGAGTTCAACGCCTTCGTTCTGGACAAGACCTATTTTGGGC
CCTACGATGAGACCACCTGCATCGACTGGACGGATGACTCCAGGTGCTTTGTGGTTGGGAGCAAAGACATGTCCA
CCTGGGTGTTTCGGAGCCGAGCGCTGGGACAACCTCATCTACTATGCACTGGGGGGACATAAGGATGCCATCGTGG
CCTGCTTCTTTGAATCCAACAGCCTGGACCTGTACTCACTCAGCCAGGACGGAGTGCTGTGCATGTGGCAGTGTG
ACACGCCCCCGAGGGCTTGCGGCTGAAGCCCCCTGCGGGCTGGAAAGCAGACCTGTTGCAGCGGGAGGAGGAAG
AGGAGGAGGAGGAGGACCAGGAGGGCGACAGAGAGACCACCATCCGGGGAAAAGCCACTCCGGCCGAGGAGGAGA
AGACAGGAAAAGTGAAGTACTCACGGCTGGCCAAGTACTTCTTCAATAAAGAAGGGGATTTTAACAACCTGACAG
CTGCAGCATTTTATAAGAGTCTCACCTCTTGGTCACTGGCTTGTCTTCTGGAATCTTCCATCTTCATGAGCTGC
CAGAGTTTAACTCATCCACTCCCTGAGCATTTTCAATCAGAGCATCGCCTCAGTGGCCATCAATAGCTCGGGGG
ACTGGATTGCTTTTGGCTGTTTCAAGCCTGGGCGAGCTGCTGGTGTGGGAGTGGCAGAGTGAGTCTTACGTGCTCA
AGCAGCAGGGCCACTTCAACAGCATGGTGGCCCTGGCCTACTCGCCCGACGGACAGTACATCGTGAAGTGGCGGGG
ACGACGGCAAGGTCAAGGTGTGGAACACCCCTCAGCGGCTTCTGCTTCGTCACTTTTACGGAGCACTCCAGCGGGG
TGACCGGTGTGACCTTTACTGCCACCGGCTACGTTGTGGTGACCTCATCCATGGACGGGACCGTGCGAGCCTTTG
ACCTTACAGGTACCGAAACTTCCGCACCTTCACCTCTCCACGCCCCACCCAGTTCTCCTGTGTGGCGGTGGATG
CGAGCGGTGAGATCGTCTCTGCAGGGGGCGCAGGACTCCTTTGAGATTTTCGTGTGGTCCATGCAGACAGGCAGGC
TCCTTGATGTTTTGTCTGGACACGAAGGGCCCATCAGTGGTCTGTGTTTTAACCCAATGAAGTCCGTCCTGGCCA
GTGCCTCCTGGGACAAGACAGTGCGCCTATGGGACATGTTTGACAGCTGGAGGACCAAGGAGACGCTGGCCCTGA
CCTCTGATGCTCTGGCTGTGACTTTTCGCCCTGATGGTGCAGGAGCTGGCTGTGGCCACACTGAACTCACAGATCA
CCTTCTGGGACCCTGAGAACCGGGTGCAGACGGGCTCCATTGAGGGCAGGCATGACCTCAAGACTGGCAGGAAGG
AGCTGGACAAGATTACAGCCAAGCAGCGGCCAAGGGGAAGGCCTTACCAGCCCTGTGCTACTCTGCAGACGGCC
ACAGCATCCTGGCGGGAGGCATGTCCAAGTTCGTGTGCATCTACCACGTCCGTGAGCAGATTCTCATGAAGAGGT
TCGAGATCTCTTGCAACCTGTCTTTGGACGCCATGGAGGAATTTTGAACCGAAGAAAAATGACAGAGTTTGGCA
ACCTGGCACTAATTGATCAGGATGCTGGGCAGGAGGATGGAGTCGCGATACCCTGCCAGGCGTCAGGAAAGGTG
ACATGAGTTCTCGGCACTTCAAACCTGAGATCAGGGTGACCTCACTCCGCTTCTCTCCACTGGGCGCTGCTGGG
CGGCCACCACCACGGAGGGACTCCTCATCTACTCCCTGGACACCCGCGTGCTCTTTGACCCGTTTGAAGTGGACA
CCAGCGTCACCCCGGGAGGGTGCAGGAGGCACTGCGCCAGCAGGACTTCACCAGGGCCATCCTCATGGCCCTCC
GGCTCAACGAGAGCAAACCTGGTGCAGGAGGCCCTGGAGGCGGTGCCAGGGGCGAGATTGAAGTGGTACCTCCT
CCCTTCTGAACTGTATGTGGAGAAAGTGCTGGAGTTTTTGTAGCTTCTCCTTTGAAGTGTCTCGCCACCTGGAAT
TCTACCTCCTCTGGACTCACAACCTGCTCATGTTGCACGGACAGAAGCTGAAGTCCAGAGCGGGACGCTGCTGC
CTGTCAATTCAGTTCTCCAGAAGAGCATCCAGCGGCACCTGGACGACCTGTGAAACTCTGTAGCTGGAACCACT
ATAACATGCAGTACGCACTAGCAGTTTTCCAAGCAGCGGGGCACAAAACGCTCCCTAGACCCGCTGGGAAGTGAGG
AGGAGGCAGAAGCATCTGAAGATGACAGCCTGCATCTGCTTGGAGGAGGAGGCAGAGACTCAGAAGAAGAGATGC
TGGCCTAGAGCCAGCCGTTTGCAGCGTTGGATTGTGCCGGCTAAGACCTGCCAGGGAGATGGGACCCTTGTGCCA
CCTGGGCCAGCAAAGAGGAGGGGTCCAGAGAACAGCTGAAATACTGTCACTAGTGGTAGTGACTTGTCTTTTCTG
TGCACACATGTAGCCCATCAGGACAGCGAGCCGACGGGTACGCCAGGGGCCGCGCACGCACTGGCACCTGGCCCC
AGGAGCGGGGCGGTGTGAACGGTGATGAATGTTGAAAATGCGTCTCAGAGAGGTATTACATGAACCTTTGTATGA
GACTTATTTATATCTTTAACATAAAGGTTTGATAAAGAACTTAGGGATTAAAAAAGATGGAGTTTTCTAACGT
GAGGATGAAGTCTACACTTCAGATTAATAAAGGGTTATGTTGTA

6403/6881
FIGURE 5911

CCCATCTCCACCCCTCCCCTGAACCCCACTCCCCACTGAGGTCCCCAAACCCACCCCTCACTCCACCCCTGAGGG
CCCCATCCTCTGAACCCCAATCCCCCAGCCCCACTGAGCTCTTAACCCCTCCCCACCTGAGGGTTCCCTTTCCCTG
CCCGTCCCCCAGCTTCCTAGCTCCCCACCCCAAGTGACCCCCCGCAGCTCCTCGCCCCCTCCCACTGCAAACCGGC
ACTGAAGGGCTGCCCCGCCCCCGCCCCCTCCCCGCCCCCGGGGACACGCCCAGATTCTTTGCCCCCATAGCCTGG
TGACCTCTGGCCACCCGCTGTCCCAGGTGGGCCTGGATCCTTCCAGCTCATTCTTTGCCTGCGCCGTCCCTCGTT
CCATGGCCCCAGTCCCTCCCCGGGGACCCCTGAGCCTGGAAGCCCCGGACCCTGGAACCTTGAACCCACCAGCTGGC
TGTACCCGGAGCCGTGGCAGCAGCCCTCATCCCCATGGCGGCCATCCCAGCCCTGGACCCAGAGGCCGAGCCAG
CATGGACGTGATTTTGGTGGGATCCAGTGAGCTCTCAAGCTCCGTTTACCCGGGACAGGCAGAGATCTTATTGC
ATATGAAGTCAAGGCTAACCAGCGAAATATAGAAGACATCTGCACTCTGCTGCGGAAGTCTCCAGGTTACACACA
GCACCCCTCTGTTTGAGGGAGGGATCTGCGCCCCATGTAAGGACAAGTTCTGGATGCCCTCTTCTGTACGACGA
TGACGGGTACCAATCCTACTGCTCCATCTGCTGCTCCGGAGAGACGCTGCTCATCTGCGGAAACCCCTGATTGCAC
CCGATGCTACTGCTTCGAGTGTGTGGATAGCCTGGTCCGCCCCGGGACCTCGGGGAAGGTGCACGCCATGAGCAA
CTGGGTGTGCTACCTGTGCCTGCCGTCTCCCGAAGCGGGCTGCTGCAGCGTCGGAGGAAGTGGCGCAGCCAGCT
CAAGGCCCTTCTACGACCGAGAGTCGGAGAATCCCCTTGAGATGTTGAAACCGTGCCTGTGTGGAGGAGACAGCC
AGTCCGGGTGCTGTCCCTTTTTGAAGACATCAAGAAAGAGCTGACGAGTTTGGGCTTTTTGGAAAGTGGTTCTGA
CCCGGGACAACCTGAAGCATGTGGTTGATGTACAGACACAGTGAGGAAGGATGTGGAGGAGTGGGGACCCCTCGA
TCTTGTGTACGGCGCCACAGCTCCCCTGGGCCACACCTGTGACCGTCCCTCCCAGCTGGTACCTGTTCCAGTTCCA
CCGGTTCTTGCACTACGCACGGCCCAAGCCAGGCAGCCCCAGGCCCTTCTTCTGGATGTTCTGTGGACAATCTGGT
GCTGAACAAGGAAGACCTGGACGTCGCATCTCGCTTCTGGAGATGGAGCCAGTCACCATCCCAGATGTCCACGG
CGGATCCTTGCAAGATGCTGTCCGCGTGTGGAGCAACATCCCAGCCATAAGGAGCAGCAGGCACCTGGGCTCTGGT
TTCGGAAGAAGAATTGTCCCTGCTGGCCCAGAACAAGCAGAGCTCGAAGCTCGCGGCCAAGTGGCCCACCAAGCT
GGTGAAGAACTGCTTTCTCCCCCTAAGAGAATATTTCAAGTATTTTTCAACAGAACTCACTTCTCTTTATAAT
GAGTCACTATACTGTGAAGAAAAAGACTTTTCTAGAACAAAGGCAACTTTCTCTC

6404/6881
FIGURE 5912

MAAIPALDPEAEPSMDVILVGSSELSSSVSPGTGRDLIAYEVKANQRNIEDICICCGSLQVHTQHPLFEGGICAP
CKDKFLDALFLYDDDGYSYCSICCSGETLLICGNPDCTRCYCFECVDSL VGPGTSGKVHAMSNNWCYLCLPSSR
SGLLQRRRKWRSQKAFYDRESENPLEMFETVPVWRRQPVRVLSLFEDIKKELTS LGFLESGSDPGQLKHVV DVT
D TVRKDVEEWGPF DLVYGATAPLGHTCDRPPSWYLFQFHRFLQYARPKPGSPRPFFWMFVDNLVLNKEDLDVASR
FLEMEPVTIPDVHGGSLQNAVRVWSNIPAIRSSRHWALVSEEELSLLAQNKQSSKLA AKWPTKLVKNCF LPLREY
FKYFSTELTSSL

6405/6881
FIGURE 5913

GCGACGCGGCGCAGGCGGCGGGAGTGCAGCTGGGCCCCGTGTTTCGGCCGCCGCGCCATGGCCGCGGTGGACCTGGA
GAAGCTGCGGGCGTCGGGCGCGGGCAAGGCCATCGGCGTCCTGACCAGCGCGGCGACGCGCAAGGTCCCCTGAC
AAGCCCACCAGGCCCCCTGCTGAGATGGCTGTGACCCTGGGCTGACCCGCCAGTGGCACATTGACTCCGCCTGG
AGCTGGGGAGACCAGAGAGGCCCTGTGGTTGGACGGTGGCCTGGGTGCGCTGCTCCTGCCCTCTCCTTGCCCTGC
CTCAGCTGCTGCCTGCCAGAGGCGTGGCACCTCACCTCACACCTGCTCCCTGCTGCTGAGCCCCACGCCAAGCTG
GAGAGCGGATGAGAAGCATGTGTAACCAGGGTAGAGGTGAGAGTCCCTCTCGTGGGGGTCTCCATGTTCAAGGGA
GCTGCCGAGGCTTGAGCAGGAGCCCCAGCAGGAACTGGCTTTGCCAAGGCCCGCTGGGACAGACTGTTTTCT
TTCACTGCAGTCTGGGAGCCGAGGGCAAGGGGACAGGAAAGAGGAAGTGACCTCAGAGCCTGGTGGCACCAGCA
TCATGTCCAGGCTGGGGGGCATGAACGCTGCTGTCCGGGCTGTGACGCGCATGGGCATTTATGTGGGTGCCAAAG
TCTTCTCATCTACGAGGGCTATGAGGGCCTCGTGGAGGGAGGTGAGAACATCAAGCAGGCCAACTGGCTGAGCG
TCTCCAACATCATCCAGCTGGGCGGCACTATCATTGGCAGCGCTCGCTGCAAGGCCCTTACCACCAGGGAGGGGC
GCCGGGCGAGCGGCTACAACCTGGTTCAGCACGGCATACCAACCTGTGCGTCATCGGCGGGGATGGCAGCCTTA
CAGGTGCCAACATCTTCCGAGCGAGTGGGGCAGCCTGCTGGAGGAGCTGGTGGCGGAAGGTAAGATCTCAGAGA
CTACAGCCCGGACCTACTCGACCTGAACATCGCGGGCCTAGTGGGCTCCATCGATAACGACTTCTGCGGCACCG
ACATGACCATCGGCACGACTCGGCCCTCCACCGCATCATGGAGGTGATCGATGCCATCACCACCCTGCCCCAGA
GCCACCAGAGGACCTTCGTGCTGGAAGTGATGGGCCGGCACTGCGGGTACCTGGCGCTGGTATCTGCACTGGCCT
CAGGGGCCGACTGGCTGTTTCATCCCCGAGGCTCCACCCGAGGACGGCTGGGAGAACTTCATGTGTGAGAGGCTGG
GTGAGACTCGGAGCCGTGGGTCCCGACTGAACATCATCATCATCGCTGAGGGTGCCATTGACCGCAACGGGAAGC
CCATCTCGTCCAGCTACGTGAAGGACCTGGTGGTTTACAGAGGCTGGGCTTCGACACCCGTGTAACCTGTGCTGGGCC
ACGTGCAGCGGGGAGGGACGCCCTCTGCCTTCGACCGGATCCTGAGCAGCAAGATGGGCATGGAGGCGGTGATGG
CGCTGCTGGAAGCCACGCTGACACGCCGGCCTGCGTGGTCACCTCTCGGGGAACAGTCACTGCGGCTGCCCC
TCATGGAGTGGTGCAGATGACCAAGGAAGTGAGAAAGCCATGGATGACAAGAGGTTTGACGAGGCCACCCAGC
TCCGTGGTGGGAGCTTCGAGAACAAGTGAACATTTACAAGCTCCTCGCCACCAGAAGCCCCCAAGGAGAAGT
CTAACTTCTCCCTGGCCATCCTGAATGTGGGGGCCCCGGCGGCTGGCATGAATGCGGCCGTGCGCTCGGCGGTGC
GGACCGGCATCTCCCATGGACACACAGTATACGTGGTGCACGATGGCTTCGAAGGCCTAGCCAAGGGTCAGGTGC
AAGAAGTAGGCTGGCACGACGTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGGGGACCAAGAGGACCCTGC
CCAAGGGCCAGCTGGAGTCCATTGTGGAGAATCCGCATCTATGGTATTACGCCCTGCTGGTGGTGGTGGGT
TTGAGGCCTATGAAGGGGTGCTGCAGCTGGTGGAGGCTCGCGGGCGCTACGAGGAGCTCTGCATCGTCATGTGTG
TCATCCCAGCCACCATCAGCAACAACGTCCCTGGCACCGACTTCAGCCTGGGCTCCGACACTGCTGTAAATGCCG
CCATGGAGAGCTGTGACCGCATCAAACAGTCTGCCTCGGGGACCAAGCGCCGTGTGTTTCATCGTGGAGACCATGG
GGGGTTACTGTGGCTACCTGGCCACCGTGACTGGCATTGCTGTGGGGGCCGACGCCGCTACGTCTTCGAGGACC
CTTTCAACATCCACGACTTAAAGGTCAACGTGGAGCACATGACGGAGAAGATGAAGACAGACATTACAGAGGGGCC
TGGTGCTGCGGAACGAGAAGTGCCATGACTACTACACCACGGAGTTCTGTACAACCTGTACTCATCAGAGGGCA
AGGGCGTCTTCGACTGCAGGACCAATGTCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCCTTTGACCGGA
ACTATGGGACCAAGCTGGGGGTGAAGGCCATGCTGTGGTTGTGCGAGAAGCTGCGCGAGGTTTACCGCAAGGGAC
GGGTGTTTCGCCAATGCCCCAGACTCGGCCTGCGTGATCGGCCTGAAGAAGAAGGCGGTGGCCTTCAGCCCCGTCA
CTGAGCTCAAGAAAGACACTGATTTGAGCACCGCATGCCACGGGAGCAGTGGTGGCTGAGCCTGCGGCTCATGC
TGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCTACGTGTGAGGGGAGCTGGAGCACGTGACCCGCCGCA
CCCTGAGCATGGACAAGGGCTTCTGAGGCCAGCCATGCCACGCCCTCCCCAGCCCCACCCATGCCAGCGCAG
CGCCAGGGCTCAGATGGGGCTGGGCTGTTGTGTCTGGAGCCTGCAGGCAGGTGGGGGCTGCGTCCCTGCTCAGC
CCATCCCCTGCCTCTATCCCTGGCCACCTGCCAGGCCTCCCTCGGGCTGGTGTCTTGAGACCAGCTGCCAGGCC
CTCCAGCAGGAGGACAGAGTGCCCTGGGGCATCCACCTTCTGCCAGGGGACGTGGCGCTGTCGGTGTGAGG
GCTGCTGCCCCCTGGCTTTGGCGCCCCATGGGCCCTCAGCGTCTCCCCATGCTGGGCTCACTACATGGGCCAGCC
CTTGCTCTACCTGGCCGGTAGGCTGCTGGCGCCTAGGTTGTGTTGAGAGGGGGATGCCCTGGCCCTGCCTCACT
GTGACCTGCTCCTGCCCACGTGCAGCACCTGTACCTTTTCTAGAAATAAAATCACCTGACTGTGGGGTGCATC
GGTCTCCGG

6406/6881
FIGURE 5914

GTGGCACGGGCAGGGCCCAGTGACAGGGATCTGGGCATGGCGAGGGGATGAGAAGCTGTGGATACAAGCCCAGG
ACATGGGGTGGCCCCGCGGGGCTGGGAAGGCTGGCAGATGTTGGGTGTGGGTACCACCCCCCTGCAGGCGTCCT
GGCGGCCGGGTCAGGCTGGATTGGACGTCTGGGTTCCCATGCGTGCCTCCACCCGCTACCAAGGTGGCCAACCCT
CCCTTGAGCTGGATGCCGGCCACGTGCTTTGCTGCACGGGCTGGCGTGGCCTCGTGTGTGTTGGGGGTCTCGCA
CCTTCTGTGGAAGGTGCCCTGCCTGGCATGCGCGGTGTCTGCTGCCTCATGGCTGAGCTTCCATCGGGCCGTGTG
CCTGTGACCAGCCTCCTGGGCTCTGTACGGCTGCGCTGTGGCTGTACGCCGTGGCGCTGCAGGGCTGTGCATGG
TGTGACCCGAATCCCTTCCAGGAGCTTCGAGAACAACCTGGAACATTTACAAGCTCCTCGCCCACCAGAAGCCCCC
CAAGGAGAAGTCTAACTTCTCCCTGGCCATCCTGAATGTGGGGGGCCCCGGCGGCTGGCATGAATGCGGGCCGTGCG
CTCGGCGGTGCGGACCGGCATCTCCCATGGACACACAGTATACGTGGTGCACGATGGCTTCGAAGGCCTAGCCAA
GGGTGAGGTGCAAGAAGTAGGCTGGCACGACGTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGGGGACCAA
GAGGACCCTGCCCCAAGGGCCAGCTGGAGTCCATTGTGGAGAACATCCGCATCTATGGTATTCACGCCCTGCTGGT
GGTCGGTGGGTTTGAGGCCATGAAGGGGTGCTGCAGCTGGTGGAGGCTCGCGGGCGCTACGAGGAGCTCTGCAT
CGTCATGTGTGTCATCCCAGCCACCATCAGCAACAACGTCCCTGGCACCGACTTCAGCCTGGGCTCCGACACTGC
TGTAATGCGCCCATGGAGAGCTGTGACCGCATCAAACAGTCTGCCTCGGGGACCAAGCGCCGTGTGTTTCATCGT
GGAGACCATGGGGGGTTACTGTGGCTACCTGGCCACCGTGAAGTGGCATTGCTGTGGGGGCCGACGCCGCCTACGT
CTTCGAGGACCCTTTCAACATCCACGACTTAAAGGTCAACGTGGAGCACATGACGGAGAAGATGAAGACAGACAT
TCAGAGGGGCTGGTGTGCGGAACGAGAAGTGCCATGACTACTACACCACGGAGTTCTGTACAACTGTACTC
ATCAGAGGGCAAGGGCGTCTTCGACTGCAGGACCAATGTCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCC
CTTTGACCGGAACATATGGGACCAAGCTGGGGGTGAAGGCCATGCTGTGGTTGTGCGGAGAAGCTGCGCGAGGTTTA
CCGCAAGGGACGGGTGTTCGCAATGCCCCAGACTCGGCCTGCGTGATCGGCCTGAAGAAGAAGGCGGTGGCCTT
CAGCCCCGTCACCTGAGCTCAAGAAAGACACTGATTTGAGACACCGCATGCCACGGGAGCAGTGGTGGCTGAGCCT
GCGGCTCATGCTGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCCTACGTGTGAGGGGAGCTGGAGCACGT
GACCCGCCGACCCCTGAGCATGGACAAGGGCTTCTGAGGCCAGCCATGCCACGCCCCCTCCCCAGCCCCACCCA
TGCCAGCGCAGCGCCAGGGCTCAGATGGGGCCTGGGCTGTTGTGTCTGGAGCCTGCAGGCAGGTGGGGGCTGCGT
CCCTGCTCAGCCCATCCCTGCCTCTATCCCTGGCCACCTGCCAGGCCTCCCTCGGGCTGGTGTCTTGAGACCAG
CCTGCCAGGCCCTCCAGCAGGAGGACAGAGTGCCCTGGGGCATCCACCTTCCCTGCCAGGGGACGTGGCGCTGTC
GGTGTGTTGAGGCTGCTGCCCCCTGGCTTTGGCGCCCCATGGGCCCTCAGCGTCTCCCCATGCTGGGCTCACTAC
ATGGGCCAGCCCTTGCTCTACCTGGCCGGTAGGCTGCTGGCGCCTAGGTTGTGTTGAGAGGGGGATGCCCTGGC
CCTGCCTCACTGTGACCTGCTCCTGCCACGTGCAGCACCTGTACCTTTTCTAGAAATAAAATCACCTGACTG
TGGGGTGCATCGGTCTCCGG

6407/6881
FIGURE 5915

CCGCGCAGTCGTCACCCGCCCGGGATCAGGAGGCCGGGGCGCCCGCCGGTCGGGGCCTGGGCGGCCGCATGAAGC
TGACGCGGAAGATGGTTCTGACCCGAGCCAAGGCCTCGGAGCTGCACAGCGTGCAGCAAGCTCAACTGCTGGGGCA
GCCGCCTCACAGATATCTCCATTTGCCAGGAGATGCCAGCCTGGAGGTGATCACGCTCAGTGTCAACAGCATCT
CCACCCTGGAGCCTGTGAGCCGGTGCCAGCGCCTGAGTGAGCTGTACCTGCGGAGGAACCGCATCCCCAGCCTGG
CTGAGCTCTTCTACCTGAAGGGGCTGCCGCGTCTGCGGGTGCTGTGGCTGGCCGAGAACCCGTGCTGCGGCACCA
GCCCCACCGCTACCGCATGACCGTGCTGCGCACCCCTGCCGCGCCTACAGAAGCTGGACAACCAGGCTGTGACGG
AGGAGGAGCTGTCCCGTGCACTGAGTGAGGGAGAGGAGATCACTGCGGCCCCAGAGAGAGAGGGCACAGGCCACG
GCGGCCCCAAGCTATGCTGCACACTGAGCTCCCTCAGCTCCGCTGCTGAGACTGGCCGGGACCCGCTGGACAGCG
AGGAGGAGGCAACCAGCGGCGCCAGGATGAACGTGGCCTGAAGCCGCTTCCCAGGGGCCAGTTTCCTTCCCTCT
CAGCCAGGGATGCCTCGAGCAGCCACAGGGGCAGGAACGTCTGACTGCCATCCTGCTGCTGCTGCTGCGGGAGCTGG
ATGCAGAGGGGCTGGAGGCCGTGCAGCAGACTGTGGGCAGCCGGCTGCAGGCCCTGCGTGGGGAAGAGGTGCAGG
AGCACGCCGAGTGAACCGCAGGACCTGAACGCCGCTCCAGCCTCCACGGGGACCCAGCGTCTTCCCCAGCCCCCG
GGAGCTGGAGGGTGGCTGCCATGGCCGCAGCCCCGCCCCACACAAAAGCCTCCCCGGTTTGCCACATCGGCCGA
GGGCAGGAGTGGGTGTTAGGTACTGGCTAACCGGGGCGGTGGAGATGCCTGTCTACACCAGTCTGTCCCCAGGA
CTCCCCTTCTGTGGTCTGGAGGTTCTAGGCTGGCCTGGGCTCTTAAAGGGAGGATTTTGCAGGCTGTCTCCCTA
ATAAAAAGATTTTCCCAAGGTTGATCTGGAGGTGACGTTTCCCAAGGCATGGTTGTGACAGTCTTCTGAAAGCAA
GGGCCGTTTCTCCACAGAATGAGGAGGTCTTCACGGATGGCTTTGCCGATTCCAGCCCTTGGTCCTTGGATAGAT
TTCTGTTGGGCAAGGGAGACTTCGAGAATGCTGGCACCATAAGCGACATCTGCCCTGAGCTGCTCAGCAGGCAGG
CAGCAGCCTCCCCGACCCATGGGAGAGAGTTTTGTTTTCTTGGCCGGGCTGGGCAGGTGCGCCTTCCCTTTCTCTC
TCTGTGAAGAACTGCAGGAGGGCCCTCAGCTGTGAGGTTGTGGATGAACAGGCCTGTTTCGCCCTGGGGTCCGGG
CCTGGCACAGGAAGCAGCTAGACTAGGGGAGTCCTTGGAGCATCTGAGAGGGGTTTTCTTTCTCTGGAAGAGT
CGCAAGTCTTATGAGGATGCCACAATCTGGGCAGTGACCCGTGGCCCTGGGGACCTTCTAGTGCCCCCAAAC
CAAGGAAGCATTACGTGAGATGGGGAGTCAGCCTTCCAGCTGGTGTGTAGGAAAGCCAGGTCCCTGGGCCCTTG
TCCCATGTGGGGTTGAGATCCAGATCTCCATGAGATATTCCCATCCTCCGCCGAGCGGTGATGCGTGACCGTGTG
TGCAGGCCGCTGTTCTCCCAAGCTCGGGGCCATGCCGTGCCACCGTCAACAGAGCCAGCTGCAGCACTGGGGCAG
CCACTGTGCGCCGACTTGGGGAAGCCCAGGGTGAAGACAGTCACTCATCCGTGCAAGCTCTCCAGAAGGGATGCA
AGCTCTCCAGAAGGGGTGTGATCTCTGAGCAGTGGGGAGTGGAGTCAACCACTCGGGACATAGAGGGTGGACAGTT
CAGGCCTGTGTCTGCCTCCTTGGGACTGTGGAGTGGGTGCCCTCAGTAAAGCGCTTTGTTGGAATGGTAAAAAA
AAAAAAAAAAAAAA

6408/6881
FIGURE 5916

MKLTRKMLTRAKASELHVRKLNWGSRLTDISICQEMPSLEVITLSVNSISTLEPVSRQRLSELYLRRNRIP
SLAELFYLKGLPRLRVLWLAENPCCGTSPHRYRMTVLRITLRLQKLDNQAVTEEELSRALSEGEEITAAPEREGT
GHGGPKLCCTLSSLSSAAETGRDPLDSEEEATSGAQDERGLKPPSRGQFPLSARDASSSHRGRNVLTAILLLLR
ELDAEGLEAVQQTVGSRLQALRGEEVQEHA

6409/6881
FIGURE 5917

CGCGCGGCTGAGGCGAGGTCGCTCGGCGCAGCTGTTGCGGGGCCATGGCGGGGACCGCGCTCAAGAGGCTGATGG
CCGAGTACAAACAATTAACACTGAATCCTCCGGAAGGAATTGTAGCAGGCCCCATGAATGAAGAGAACTTTTTTG
AATGGGAGGCATTGATCATGGGCCCAGAAGACACCTGCTTTGAGTTTGGTGTTTTTCTGCCATCCTGAGTTTCC
CACTTGATTACCCGTTAAGTCCCCCAAAGATGAGATTTACCTGTGAGATGTTTCATCCCAACATCTACCCTGATG
GGAGAGTCTGCATTTCCATCCTCCACGCGCCAGGCGATGACCCCATGGGCTACGAGAGCAGCGCGGAGCGGTGGA
GTCTGTGCAGAGTGTGGAGAAGATCCTGCTGTCGGTGGTGAGCATGCTGGCAGAGCCCAATGACGAAAGTGGAG
CTAACGTGGATGCGTCCAAATGTGGCGCGATGACCGGGAGCAGTTCTATAAGATTGCCAAGCAGATCGTCCAGA
AGTCTCTGGGACTGTGAGACCTGGCCTCGCACAGGCGCGCACACACCGCCAAGCAGCTCAGCATTCTCCCCGGC
ACACTTAGTGACAGTGATGCTCTGTGCTGGTACCAAACAAGGCAGACTTGCAAGAACCATGGCATCTTTTTTTTT
TTTCAAACCTTTCTACTTCAAACAGGCTTCTCTTCTGAAATGATGACTTAATGTGCAATATTGACAGCTTACTG
CAGTTTTACAGTATTCCTCACAAAGGGCTTCAGGTAGATTATCAGAGCTGTCAGCACTACCTCTCCCCGCTGAAA
CCAGCAGTTTCATGGCTTCTGTGGATTCCCTCCCTCCCTGGAGTGTGAGGGGTTGTACCTGCCAGACTTCCAG
GGGACGATGGAATACCCAGAACGCTCCTTCTGAAGAAATGGGGCCCTGTAGCTGCAGCACAGGGGAAGGGCCCGG
CACCTTTCTGGGTCTTCTGCTTCCCTGTGGGCCCATGAGGAGTCCATTACTTCTTCTTCCCTTCATATTT
TACAGGCAGATGCTTTTTCTTATAATCTAATTACATCTTTTCATTTGTTATATATTACAAACCATCACACTTAGAA
ATACTTCCAGGAAATGCTTTTTTGAAGTGTGAATTAATAAGAAATGGGGTAAATAGAAAAGAAATTTATTGCTGA
TTGGCCAGGTGCGGTGGTTCGTGCCTGTAATCCAGCTCTTTGGGAGGCCAAGGCAGGTAGATCACAAAGTCCAGG
AAATTGAGACCATCCTGGCTAATACAGTGAACCCCATGTCTGCTAAAATTACAAAAATTAGCTGGGCGTGGTG
GTGCACGCCTGTAGTCTCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTGAACCCGGGAGGCAGAGGTAGCA
GTGAGCTGAAGTCCCGCCACTGCACTCCAGCCTGGGCAACAGAGCGGAGACTCAGTCTCAAAAAGAAAAAGAAAT
TTATTGCTGATCACAAAGGACAGACAGTTTTTTCCCGACCATACTCATCAAAGATTTACGTTTGTATATTAGTAAC
TAGTGCAATTACTAGAGCAGGTGCAGGTGAGGTCTTTAAAGTTTCAATGAAAGTTTCTTCTGGATCTACAGAAAA
ATTTTTTTTTTCAATCTAAAACTGGAATTTCTAGGGTTTTTGTACATTTTGGATGCACTGGGAATTTATTAGC
ACAAAAATCATTTCTTGAACCTCAAAATTCAGAAGGGACTCTACCATATCTTAGCTCAGAGCACAGAGGAGTGCTT
TATCCCCACACTTGACTGGGCTGTGGAGGTGGGCATGTGGGCCCCCTGGGCCCAGGCTGGGGACAGAGCCCTTGTT
TTGTGACTTAGGATTTTGATGTGGTTCCCATGTTCTCTAACAGGGCCAGCTGAGCAGCACAGGCCAGGAGGCCAC
AGTGTAAAGCAATAACAGATCTGCCACATGCAGAAGCAAATATCAGGCCTGTGCGCACACGGGCGGCATTTAAATAG
GAATTTCTATTTTGAATAAGGGATGGTCTATGAGGCATACAGTAGATTTGATGTGATCCTTTTCTCCCTCCCT
TCCATAATGGATCGTGGTCTGTGTGACTGAACCCACACAGAGTGTGATGGGTGACAGTTTCTGGTTGAAGTAGCT
CCACGCCTGGCTTCTGTGGACAGCAGATTCTTTTCTTCTCACAAGGGGCTCATTTAAAAATTTGGAGGCTGGGTG
CTGTGGCTCACGCCTGCAATCCCAGCACTTTGGGAGACTGAGGCGGGCGGATCATGAGGTGAGGAGATCGCGACC
ATCCTGGCTAACAGTGAAACCCGTGCTCCACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGTA
GTCCCAGCTACTCTGAAGACTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGCAAGTGTGAGATC
ACGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAATGGAACGCAG
GGCAAGAACTCGTATTTGGAAGGAGATGGGGGAAAGGAGCGGTATTATACCTATGTTGTATTTGCAGGCAAATGA
GATGGAGCCCTCTCTGTAAAGAAGAGTCATTTGTGCAAGTAGACGGGGTCTGTGGGTGCAGGCCCTGGAGGGGCA
CACAATTGCCTGGAGGCTTCTGTGAGATCGGGAGAGGGAGGAGAGGCAGTCTCTTGACAAAATAAAGTATTTTA
TTCATTTGTATTTATTAAATGAAAAACAATCCCATGGTGTCCCTGTTGTGTGGTGGAACCTAATGACTGTTGAA
ATAAAGTTCTGTGTTTTCCCTGCCCTGC

6410/6881
FIGURE 5918

MAGTALKRLMAEYKQLTLNPPEGIVAGPMNEENFFEWREALIMGPEDTCFEGVFPAILSFPLDYPLSPPKMRFTC
EMFHPNIYPDGRVCISILHAPGDDPMGYESSAERWSPVQSVEKILLSVVSMLAEPNDESGANVDASKMWRDDREQ
FYKIAKQIVQKSLGL

6411/6881
FIGURE 5919

AGCCACGTGACCCCCGTGCCGGCCAACGGGTGCGCCGGGATTTGGGGGATAAAGCGCGGCCCCGCGCACAGTTGC
GGCGGGAGAGCGGGCGGGGCCGAGAGCGTGAATCGCCCGCTCCGCGCTGCTTCCCCCGCGCCGCTCCCCGCGCCG
CTCGCGCAGCCATGTCCGAGGAGAAGCCCAAGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAGGTGG
CCGGGCGAGGACGGCTCCGTGGTGCAGTTCAAGATCAAGAGGCACACGCCGCTGAGCAAGCTGATGAAGGCCTACT
GCGAGAGGCAGGGCTTGTCAATGAGGCAGATCAGATTCAGGTTTCGACGGGCAGCCAATCAATGAAACTGACACTC
CAGCACAGCTGGAGATGGAGGACGAGGACACCATCGACGTGTTCCAGCAGCAGACGGGAGGTGTGCCGGAGAGCA
GCCTGGCAGGGCACAGTTTCTAGAGGGCCCGTCCCCAGCCCGGGCCGTCCATCCTCGCATTGCTGTTGAATGGTG
AGCACGTGACCATGCCGACCACAAAGGTGTCTGCGGAAACTCGAGGACATTACCACGATGATTTTCTCTCTTT
GATGTACTTCAAGTGCAACTCAAACTATATCTGCAGGGATGAATCTGTAACCTAAATTGGGCCAATCAGAATTG
TTATCTTTGTTTCAGGTAAAATGAGTTGCAAGATATTGTGGGTACTTTTGTGTGCTCATTTTGTGTTTTCCCCCCT
CCTACAACATTTTTTTAACCCAAAATTATAGCCTGAATGTTTCGCTTTTAGTCIGGCCAGGGATCTGACTCCTGA
GTTGGTTGCCTCTCCCTGCTCACTCCAGTCACATAGAGAATTGGTGTTCCTCGCAGTGGGGATGCAGCTGTTGG
ACAGGTATTGGGGCAAGGTTGGTAGGGAGGACAGACTGTCACCTGCTGTTACAGGCACAGGTGATTAAAATGCT
AAATATTGCAAATTTAAGCTTTGTCAGTATATGGAAAAGTTGAAGGGAAAATACTGGAATGCTTCTTCAAAGGTT
AAAAAATAACCGAGTCTTTTGGTAATTTGACCCACGTGCTCTCTGGCCCTCAAGCATGTAACCTCGGGGTCTGA
GGCCCAGGACCCACCCCTGCCACCCCTCCACCCCACTCCCTGCTCAGTACCTGGCGTTGGTACACAGGCAAG
GATTGGCACAACCAAATTTGGCCTTTTTCTCCCTCTTAATATTGAAGAAATTCACACATTTCTCATTTGGTAATG
GTGTTGTGGCCTCAGATTTCTTCTAGTATTTGCTTCTGATGAATGATTATGGTCTATACATAAAAAAGTAAGACT
AAGTATTGCTGAATTTGCAGTTATGTTGTCGTGTATAAGAGCTACTTCCAAGTGTGGTTACAAATGAACCCATGG
AATGATGACTTCATGTTCTTCTCGTGGGTTTGTGCCGTGCTGCTTCCAAATAGGTATTGAATTTATGCATTAGT
CTGGTGATTTCAAGTTCTGTGAAATATTTTGGGATCTATACCAATTAAACATTTTCATAGTTCTGCCTATTGTCTT
TCCCTGAGGCTCCATTGCTGCTTGGTGGCCATTCTCTGCCTTTTACAGTCACCTGAACAATGACCCATCATCTC
TTGCTTGCTTGAATCTTGCTGAAATGTTCTCATTTCTGTTTGTGCTGATGGGCTCGGGTGGGATGTTTGTGGC
TCTGTTGTGTTTATTCACCAATTTGTACATTATTTGTTGTCCTTTACTACTGTAAACAGTAAATATAGTTTGGT

6412/6881
FIGURE 5920

MSEEEKPKEGVKTENDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPINETDTPAQL
EMEDEDTIDVFQQQTGGVPESLAGHSF

CTGAACCTCAGCCGCGCCGGGAGGCCGAGCCCGTTGGCGAGGGGCGGGGCAGATGGCGAGGGAGCGGGGCGAGCTG
CTTTTTGAGGCTGCGCACTCGCATGGCCCCACCTCGCAGGTCCACTTCCGGCGCCGCGGCTGTTCCGGGCGGAGA
CCGCTTGTGCTGGAGTCGGAGTTGTAACGCTCCACTGACTGATAGAGCGACCGGCCGACCATGGCGCCCGGAGTG
GCCCGCGGGCCGACGCCGTACTGGAGTTGCGCCTCGGTGGCGCCGCGCTGCTCCTGCTGCTCATCCCCGTGGCC
GCCGCGCAGGAGCCTCCCGGAGCTGCTTGTCTCAGAACACAAACAAAACCTGTGAAGAGTGCCTGAAGAACGTC
TCCTGTCTTTGGTGCAACACTAACAAAGGCTTGTCTGGACTACCCAGTTACAAGCGTCTTGCCACCGGCTTCCCTT
TGTA AATTGAGCTCTGCACGCTGGGGAGTTTGTGGGTGAACTTTGAGGCGCTGATCATCACCATGTCGGTAGTC
GGGGGAACCTCCTCCTGGGCATTGCCATCTGCTGCTGCTGCTGCTGCAGGAGGAAGAGGAGCCGGAAGCCGGAC
AGGAGTGAGGAGAAGGCCATGCGTGAGCGGGAGGAGAGGCGGATACGGCAGGAGGAACGGAGAGCAGAGATGAAG
ACAAGACATGATGAAATCAGAAAAAATATGGCCTGTTTAAAGAAGAAAACCCGTATGCTAGATTTGAAAACAAC
TAAAGCGCTCCAGCACATCAGTCCCAGCGCTTCTGTGAGGTGCACGCTCCGCAGCCCAGCCCAGCCGGGAGACC
ACGTGGCCATTGCGGTCTCCTGACCTTGCGCCAGTGAACCTGCCAGCCTTCCAGGACAGGCGGCCGGAGAGCTGCC
CCTGAAGGACAGTCTCTCGTCTTGCACTGGTGACCTTCTATTCCCTGTTTCTGTTTCTAGATTTAGTC
ACTTGAAATAAGAAATCTTTGGGGTTTGGGCTTTTTTATACTCTTCTCAGTTTGTGAAACGCTAACTGCACACGA
AGCCGCTGACGGCACCCAGCGCTGTGGCTGTCAITCTCCCAGGGCAGAACCCTGCGTTTTCTCTGTGCCACTAA
CAAGCTTACACGCAACACAGGGAGTCGGTTTGACTTTTGTCTATGAGGAGAACTGACCAGCCCTCATCATTCCC
CATAAAACCACGGACAGCGTCTGTGTGCGCATCTGAGTCTTACACCTGTTGACTCACACGGCTTTTGCTGATG
ACACGGGGCTCCAGTACACAGTCTGATAAGGACITTAACGTCTTAACCTCAATTGTATTAAATAGCATTGGGGAAT
AGCTAAACCTTTTTTAAAAAAATTTATTGGATTTTCTCCCTGCTTAAAAGATTTACCAGAAAACCTTCATATAA
AAATTTCAGGCCCTTTTTGGACAATTTTAAAATTGTATCTTTACTAGAACATGAGAATCTTTTTCCCTTGGAAG
CTTGAATTATAAATGTGGTGTTTGGCCTGCCTCAGCAGCACCAGTTGACTGCTCGTGTGCCAGCGGTGTGGGGAG
GACGGGGCAGGACGCTGCAGCTCTCTCCAGCCCTGTTGGCATCCTCAGTGCTGCAGGCCTCTCGCTGCCGTGTTG
GGCTGTCTGGGGGGTGGCCATTTAGGGATCGTGGGGACGGGGTCCACCCCAAGAAGAAAGAAAGGCCCGTCCACA
GGCCCGGCTCTGGGCCACGTGCCCCGGAAGCAGGTGTGTCCAGAGTCAGCTGAGGGCTCTCCCCACACCACCCAG
CAGGCGCTGGTGCTCCTTCTGCCTCATGGGACCAGTCCAGCTTCCAGCCGCTCTGGCTCGAGGGTGGTCTGAGCA
CTTCCTTCTGAGTGGGCTTCTCTGGGAGCTCTCCAGTGGCACTGCTGGACCTGCCACGTTTCTGTAAATCAGG
ATACGTGGCTTTAGTAAGCAGACCAAGCGCTTCGTGGCAGGGAAAGCAGCGTGCGGGGAAGTCACTGAAAAGTGC
TGCCTAAGGAAGTTTGGAATAGTCCCCGTTCCAGATTGCCTTGAATTTTAAAACATTTTGCTTTGGGAAAGTAG
GTCAGCAGCACCTAAGATCAAGGATGCGTTCCATTTTACACCTTACAGTCATGAAAACCTGAGAAGACTGTCTTC
AGCGTGAACCTAAAGTTTACAGGCAGATCACTGATCCAGAACCTTCAAGAACTCGTCAAACAGCTCGATAAGCCT
TTTTGACTGTGTACATCTGTACCGGGAATAACATTCTAGGCTGAAATTTCCACAAAGAATAGAACCTGTACCCA
GTTCTTTCAGGCTGATTTCCCTGACCTCTTGGGCATTGTATTGTAGTAAAGTATTGCAGAGATTCCTAAGTATT
TTATAGCAGCCATCAAATTTGACTTTGTATTGTTTATTATAAAAGACACTTGGTAATAGACTTCAGTGAACCT
TGTATGAATGCAGTAGTGTGCGTGCAAAATCCGCTTCTGAGCGTAGGGTGCTGAGCTGGCGCTAGGGCTCGGTT
GTGAAATACAGCGTAGTCAGCCCTTGCCTCAGTGTAGAAACCCACGTCTGTAAGGTGCGTCTTCGTCCATCTGC
TTTTTTCTGAAATACACTAAGAGCAGCCACAAAACCTGTAACCTCAAGGAAACCATAAAGCTTGGAGTGCCTTAAT
TTTTAACAGTTTCCAATAAAACGGTTTACTACCTGA

6414/6881
FIGURE 5922

MAPGVARGPTPYWRLRLGGAALLLLLIPVAAAEPPGAACSQNTNKTCEECLKNVSLWCNTNKACLDYPVTSVL
PPASLCKLSSARWVCWVNFEALIITMSVVGTTLLGIAICCCCCRRKRSRKPDRSEEKAMREREERRIRQEER
RAEMKTRHDEIRKKYGLFKEENPYARFENN

6415/6881
FIGURE 5923

TGTCAGGACTTTACGACCCGCGCCTCCAGCTGAGGTTTCTAGACGTGACCCAGGGCAGACTGGTAGCAAAGCCCC
CACGCCCAGCCAGGAGCACC GCCGAGGACTCCAGCACACCGAGGGACATGCTGGGCCTGCGCCCCCCTGCTCG
CCCTGGTGGGGCTGCTCTCCCTCGGGTGCGTCTCTCTCAGGAGTGCACGAAGTTCAAGGTCAGCAGCTGCCGGG
AATGCATCGAGTCGGGGCCCGGCTGCACCTGGTGCCAGAAGCTGAACTTCACAGGGCCGGGGGATCCTGACTCCA
TTCGCTGCGACACCCGCCACAGCTGCTCATGAGGGGCTGTGCGGCTGACGACATCATGGACCCACAAGCCTCG
CTGAAACCCAGGAAGACCACAATGGGGGCCAGAAGCAGCTGTCCCCACAAAAGTGACGCTTTACCTGCGACCAG
GCCAGGCAGCAGCGTTCAACGTGACCTTCCGGCGGGCCAAGGGCTACCCCATCGACCTGTACTATCTGATGGACC
TCTCCTACTCCATGCTTGATGACCTCAGGAATGTCAAGAAGCTAGGTGGCGACCTGCTCCGGGGCCCTCAACGAGA
TCACCGAGTCCGGCCGCATTGGCTTCGGGTCCTTCGTGGACAAGACCGTGCTGCCGTTTCGTGAACACGCACCCTG
ATAAGCTGCGAAACCCATGCCCAACAAGGAGAAAGAGTGCCAGCCCCCGTTTGCCTTCAGGCACGTGCTGAAGC
TGACCAACAACCTCCAACCAGTTTCAGACCGAGGTGCGGAAGCAGCTGATTTCCGGAAACCTGGATGCACCCGAGG
GTGGGCTGGACGCCATGATGCAGGTCGCCGCCTGCCCGGAGGAAATCGGCTGGCGCAACGTCACGCGGCTGCTGG
TGTTTGCCACTGATGACGGCTTCATTTCGCGGGCGACGGGAAGCTGGGCGCCATCCTGACCCCCAACGACGGCC
GCTGTACCTGGAGGACAACCTGTACAAGAGGAGCAACGAATTCGACTACCCATCGGTGGGCCAGCTGGCGCACA
AGCTGGCTGAAAACAACATCCAGCCCATCTTCGCGGTGACCAGTAGGATGGTGAAGACCTACGAGAACTCACCG
AGATCATCCCCAAGTCAGCCGTGGGGGAGCTGTCTGAGGACTCCAGCAATGTGGTCCAACCTCATTAAAGAATGCTT
ACAATAAACTCTCTCCAGGGTCTTCTGGATCACAACGCCCTCCCCGACACCCCTGAAAGTCACCTACGACTCCT
TCTGCAGCAATGGAGTGACGCACAGGAACCAGCCCAGAGGTGACTGTGATGGCGTGACATCAATGTCCCAGTCA
CCTTCCAGGTGAAGGTCACGGCCACAGAGTGCATCCAGGAGCAGTCGTTTGTATCCGGGCGCTGGGCTTCACGG
ACATAGTGACCGTGACGGTTCTTCCCCAGTGTGAGTGCCGGTGCCGGGACCAGAGCAGAGACCGCAGCCTCTGCC
ATGGCAAGGGCTTCTTGAGTGCGGCATCTGCAGGTGTGACACTGGCTACATTGGGAAAACTGTGAGTGCCAGA
CACAGGGCCGGAGCAGCCAGGAGCTGGAAGGAAGCTGCCGGAAGGACAACAACCTCCATCATCTGCTCAGGGCTGG
GGGACTGTGTCTGCGGGCAGTGCCCTGTGCCACACCAGCGACGTCCCCGGCAAGCTGATATACGGGCAGTACTGCG
AGTGTGACACCATCAACTGTGAGCGCTACAACGGCCAGGTCTGCGGGCGCCCGGGGAGGGGGCTCTGCTTCTGCG
GGAAGTGCCGCTGCCACCCGGGCTTTGAGGGCTCAGCGTGCCAGTGCGAGAGGACCACTGAGGGCTGCCTGAACC
CGCGGCGTGTTGAGTGTAGTGCTGCTGGCCGGTGCCGCTGCAACGTATGCGAGTGCCATTACGGCTACCAGCTGC
CTCTGTGCCAGGAGTGCCCCGGCTGCCCTCACCCTGTGGCAAGTACATCTCTGCGCCGAGTGCCCTGAAGTTCTG
AAAAGGGCCCCCTTTGGGAAGAACTGCAGCGCGGCGTGTCCGGGCCTGCAGCTGTGGAACAACCCCGTGAAGGGCA
GGACCTGCAAGGAGAGGGACTCAGAGGGCTGCTGGGTGGCCTACACGCTGGAGCAGCAGGACGGGGATGGACCGCT
ACCTCATCTATGTGGATGAGAGCCGAGAGTGTGTGGCAGGCCCAACATCGCCGCCATCGTCGGGGGACCCGTGG
CAGGCATCGTGCTGATCGGCATTCTCCTGCTGGTCACTCTGGAAGGCTCTGATCCACCTGAGCGACCTCCGGGAGT
ACAGGCGCTTTGAGAAGGAGAAGCTCAAGTCCCAGTGGAACAATGATAATCCCCCTTTTCAAGAGCGCCACCACGA
CGGTATGAACCCCAAGTTTGCTGAGAGTTAGGAGCACTTGGTGAAGACAAGGCCGTCAGGACCCACCATGTCTG
CCCCATCACGCGGCCGAGACATGGCTTGCCACAGCTCTTGAGGATGTACCAATTAACCAGAAATCCAGTTATTT
TCCGCCCTCAAAATGACAGCCATGGCCGGCGGGTGCTTCTGGGGGCTCGTCGGGGGGACAGCTCCACTCTGACT
GGCACAGTCTTTGCATGGAGACTTGAGGAGGGAGGGCTTGAGGTTGGTGAGGTTAGGTGCGTGTTTCTGTGCAA
GTCAGGACATCAGTCTGATTAAAGGTGGTGCCAATTTATTTACATTTAACTTGTGAGGGTATAAAATGACATCC
CATTAAATTATATTGTTAATCAATCACGTGTATAGAAAAAAATAAACTTCAATACAGGCTGTCCATGG

6416/6881
FIGURE 5924A

AGCTCCAGCCGCACTGCCCGATGGCTCCCTACCCCTGTGGCTGCCACATCCTGCTGCTGCTCTTCTGCTGCCTG
GCGGCTGCCCGGGCCAACCTGCTGAACCTGAACCTGGCTTTGGTTCAATAATGAGGACACCAGCCATGCAGCTACC
ACGATCCCTGAGCCCCAGGGGCCCCCTGCCTGTGCAGCCACAGCAGATAACCACCACACACGTGACCCCCCGGAAT
GGTTCACAGAGCCAGCGACAGCCCCTGGCAGCCCTGAGCCACCCTCAGAGCTGCTGGAAGATGGCCAGGACACC
CCACTTCTGCCGAGAGCCCCGACGCGCCAGAGGAGAACATTGCCGGTGTGCGAGCCGAGATCCTGAACGTGGCC
AAAGGCATCCGGAGCTTCGTCCAGCTGTGGAATGACACTGTCCCCACTGAGAGCTTGGCCAGGGCGGAAACCCTG
GTCCTGGAGACTCCTGTGGGCCCCCTTGCCCTCGCTGGGCCTTCCAGCACCCCCAGGAGATGGGACCACTCTC
TGGCCAGCCGTGGCATTCTTAGCTCTCCGGGCGCCACACAACCGAGGCTGGCACCTTGCCTGCACCCACCCCA
TCGCTCCCTCCCTGGGCAGGCCCTGGGCACCACTCACGGGGCCCCCTCAGTGCCACCACCATCTTCAGAGCGCATC
AGCGAGGAGGTGGGGCTGCTGCAGCTCCTTGGGGACCCCCGCCCCAGCAGGTACCCAGACGGATGACCCCGAC
GTCGGGCTGGCCTACGTCTTTGGGCCAGATGCCAACAGTGGCCAAGTGGCCCCGTACCACTTCCCCAGCCTCTTC
TTCCGTGACTTCTCAGTGTGTTCCACATCCGGCCAGCCACAGAGGGCCCCAGGGGTGCTGTTCCGCATCACGGAC
TCGGCGCAGGCCATGGTCTTGTGCTGGGCGTGAAGCTCTCTGGGGTGCAGGACGGGCACCAAGGACATCTCCCTGCTC
TACACAGAACCAGGTGCAGGCCAGACCCACACAGCCGCCAGCTTCCGGCTCCCCGCCTTCGTGCGCCAGTGGACA
CACTTAGCCCTCAGTGTGGCAGGTGGCTTTGTGGCCCTCTACGTGGACTGTGAGGAGTTCCAGAGAATGCCGCTT
GCTCGGTCTCACGGGGCCTGGAGCTGGAGCCTGGCGCCGGGCTCTTCGTGGCTCAGGCGGGGGAGCGGACCCT
GACAAGTTCCAGGGGGTGATCGCTGAGCTGAAGTGCAGGGACCCCCAGGTGAGCCCCATGCACTGCCTGGAC
GAGGAAGGCGATGACTCAGATGGGGCATCCGGAGACTCTGGCAGCGGGCTCGGGGACGCCCCGGAGCTTCTCAGG
GAGGAGACGGGCGCGGCCCTAAAACCCAGGCTCCCCGCGCCACCCCCCGTACCACGCCACCCTTGGCTGGAGGC
AGCAGCACGGAAGATTCCAGAAGTGAAGAAGTCGAGGAGCAGACCACGGTGGCTTCGTTAGGAGCTCAGACACTT
CCTGGCTCAGATTCTGTCTCCACGTGGGACGGGAGTGTCCGGACCCCTGGGGGCCGCGTGAAAGAGGGCGGCCTG
AAGGGGCAGAAAGGGGAGCCAGGTGTTCCGGCAGGGCCTCCGGGGAGGGACGGCACCCCTGGAAGGGACGGCGAG
CCGGGCGACCCCGGTGAAGACGGAAGCCGGGCGACACCGGGCCACAAGGCTTCCCCGGGACTCCAGGGGACGTA
GGTCCCAAGGGCGACAAGGGAGACCCTGGGGTTGGAGAGAGAGGGCCCCCAGGACCCCAAGGGCCTCCAGGGCCC
CCAGGACCCTCCTTCAGACACGACAAGCTGACCTTCATTGACATGGAGGGATCTGGCTTCGGGGCGATCTGGAG
GCCCTGCGGGGTCTTCGAGGCTTCCCTGGACCTCCCGGACCCCCCGGTGTCCAGGCCTGCCCGGCGAGCCAGGC
CGCTTTGGGGTGAACAGCTCCGACGTCCAGGACCCGCGGCCTTCCTGGTGTGCTGGGCGCGAGGGTCCCCC
GGGTTTCTGGCCTCCCGGGACCCCCAGGCCCTCCGGGAAGAGAGGGGCCCCCAGGAAGGACTGGGCAGAAAGGC
AGCCTGGGTGAAGCAGGCGCCCCAGGACATAAGGGGAGCAAGGGAGCCCCCGGTCTGTGCTGGTGTGCTGGGGAG
AGCGGCCTGGCAGGAGCCCCCGGACCTGCTGGACCACAGGCCCCCTGGGCCCCCTGGGCCCCCAGGACCAGGA
CTCCCCGCTGGATTGATGACATGGAAGGCTCCGGGGGGCCCTTCTGGTCAACAGCCCCGAAGCGCTGATGGGCCA
CAGGGACCTCCCGGCCTGCCGGGACTTAAGGGGGATCCTGGCGTGCTGGGCTGCCGGGGGCGAAGGGAGAAGTT
GGAGCAGATGGAGTCCCCGGGTTCCCCGGCCTCCCTGGCAGAGAGGGCATTGTGGGCCCCAGGGGCCAAAGGGA
GACAGAGGCAGCCGGGGAGAAAAGGGAGATCCAGGGAAGGACGGAGTCGGGCAGCCGGGCCTCCCTGGCCCCC
GGACCCCCGGGACCTGTGGTCTACGTGTGCGAGCAGGACGGATCCGTCTGAGCGTGCCGGGACCTGAGGGCCGG
CCGGGTTTCGCAGGCTTTCCCGGACCTGCAGGACCCAAGGGCAACCTGGGCTCTAAGGGCGAACGAGGCTCCCCG
GGACCCAAGGTGAGAAGGGTGAACCGGGCAGCATCTTCAGCCCCGACGGCGGTGCCCTGGGCCCTGCCAGAAA
GGAGCCAAGGTGAGGGCCGGGCTTCCGAGGACCCCCGGGTCCATACGGACGGCCGGGTACAAGGGAGAGATTGG
CTTTCTGGACGGCCGGGTGCCCCGGGATGAACGGATTGAAAGGAGAGAAAAGGGGAGCCGGGAGATGCCAGCCT
TGGATTGGCATGAGGGGAATGCCCGGCCCCCAGGACCTCCAGGGCCCCCAGGCCCTCCAGGGACTCCTGTTTA
CGACAGCAATGTGTTTGCTGAGTCCAGCCGCCCCGGGCTCCAGGATTGCCAGGGAATCAGGGCCCTCCAGGACC
CAAGGGCGCCAAAGGAGAAGTGGGCCCCCCCCGACCACAGGGCAGTTTCCGTTTGACTTTCTTCAGTTGGAGGC
TGAAATGAAGGGGAGAAAGGGAGACCGAGGTGATGCAGGACAGAAAGGCGAAAGGGGGAGCCGGGGGCGGCGG
TTTCTTCGGCTCCAGCCTGCCCGGCCCCCCCCGGCCCCCAGGCCCCCAGGCCCCACGTGGCTACCTGGGATTCC
AGGTCCCAAGGGAGAGAGCATCCGGGGCCAGCCCGGCCACCTGGACCTCAGGGACCCCCCGGCATCGGCTACGA
GGGGCGCCAGGGCCCTCCCGGCCCCCAGGCCCCCAGGGCCCCCTTCATTTCTGGCCCTCACAGGCAGACTAT
CAGCGTTCCCCGGCCCTCCGGGCCCCCTGGGCCCCCTGGGCCCCCTGGAACCATGGGCGCCTCCTCAGGGGTGAG
GCTCTGGGCTACACGCCAGGCCATGCTGGGCCAGGTGCACGAGTTCCCGAGGGCTGGCTCATCTTCGTGGCCGA

6417/6881
FIGURE 5924B

GCAGGAGGAGCTCTACGTCCGCGTGCAAGACGGGTTCCGGAAGGTCCAGCTGGAGGCCCGGACACCACTCCCACG
AGGGACGGACAATGAAGTGGCCGCCCTTGCAGCCCCCGTGGTGCAGCTGCACGACAGCAACCCCTACCCGCGGGC
GGAGCACCCCCACCCACCGCGCGGCCCTGGCGGGCAGATGACATCCTGGCCAGCCCCCTCGCCTGCCCGAGCC
CCAGCCCTACCCCGGAGCCCCGCACCACAGCTCCTACGTGCACCTGCGGCCGGCGCGACCCACAAGCCACCCGC
CCACAGCCACCGCGACTTCCAGCCGGTGTCTCACCTGGTTGCGCTCAACAGCCCCCTGTGAGGCGGCATGCGGGG
CATCCGCGGGGCCGACTTCCAGTGTCTCCAGCAGGCGCGGGCCGTGGGGCTGGCGGGCACCTTCCGCGCCTTCCT
GTCTCGCGCCTGCAGGACCTGTACAGCATCGTGCGCCGTGCCGACCGCGCAGCCGTGCCCATCGTCAACCTCAA
GGACGAGCTGCTGTTTCCCAGCTGGGAGGCTCTGTTCTCAGGCTCTGAGGGTCCGCTGAAGCCCGGGGCACGCAT
CTTCTCCTTTGACGGCAAGGACGTCTTGAGGCACCCACCTGGCCCCAGAAGAGCGTGTGGCATGGCTCGGACCC
CAACGGGCGCAGGCTGACCGAGAGCTACTGTGAGACGTGGCGGACGGAGGCTCCCTCGGCCACGGGCCAGGCCTC
CTCGCTGCTGGGGGGCAGGCTCCTGGGGCAGAGTGCCGCGAGCTGCCATCACGCCTACATCGTGTCTGTGATTGA
GAACAGCTTCATGACTGCCTCCAAGTAGCCACCGCCTGGATGCGGATGGCCGGAGAGGACCGCGGCTCGGAGGA
AGCCCCCACCCTGGGCGAGGAGCGGCCGGCCAGCCCCTGCCCCAGGACCTGGCTGCCATACTTTCCTGTATAGT
TCACGTTTCATGTAATCCTCAAGAAATAAAAGGAAGCCAAAGAGTGTATTTTTTTTAAAAGTTTAAAACAGAAGCC
TGATGCTGACATTCACCTGCCCCAACTCTCCCCTGACCTGTGAGCCCAGCTGGGTGAGGCAGGGTGCAGTATCAT
GCCCTGTGCAACCTCTTGGCCTGATCAGACCACGGCTCGATTTCTCCAGGATTTCTGCTTTGGGAAGCCGTGCT
CGCCCCAGCAGGTGCTGACTTCATCTCCCACCTAGCAGCACCGTTCTGTGCACAAAACCCAGACCTGTTAGCAGA
CAGGCCCCCGTGAGGCAATGGGAGCTGAGGCCACACTCAGCACAAAGGCCATCTGGGCTCCTCCAGGGTGTGTGCTC
GCCCTGCGGTAGATGGGAGGGAGGCTCAGGTCCCTGGGGCTAGGGGGAGCCCCCTTCTGCTCAGCTCTGGGCCATT
CTCCACAGCAACCCAGGCTGAAGCAGGTTCCCAAGCTCAGAGGCGCACTGTGACCCCCAGCTCCGGCCTGTCTCT
CCAACACCAAGCACAGCAGCCTGGGGCTGGCCTCCCAAATGAGCCATGAGATGATACATCCAAAGCAGACAGCTC
CACCTGGCCGAGTCCAAGCTGGGAGATTCAAGGGACCCATGAGTTGGGGTCTGGCAGCCTCCCATCCAGGGCCC
CCATCTCATGCCCCTGGCTGGGACGTGGCTCAGCCAGCACTTGTCAGCTGAGCGCCAGGATGGAACACGGCCAC
ATCAAAGAGGCTGAGGCTGGCACAGGACATGCGGTAGCCAGCACACAGGGCAGTGAGGGAGGGCTGTCTGTG
CACTGCCCATGGACAGGCTGGCTCCAGATGCAGGGCAGTCATTGGCTGTCTCCTAGGAAACCCATATCCTTACCC
TCCTTGGGACTGAAGGGGAACCCCGGGGTGCCACAGGCCGCCCTGCGGGTGAACAAAGCAGCCACGAGGTGCAA
CAAGGTCCTCTGTGAGTACAGCCACCCCTGAGATCCGGCAACATCAACCCGAGTCATTGTTCTGTGGAGGGAC
AAGTGGACTCAGGGCAGCGCCAGGCTGACCACAGCACAGCCAACACGCACCTGCCTCAGGACTGCGACGAAACCG
GTGGGGCTGGTTCTGTAAATTGTGTGTGATGTGAAGCCAATTACAGACAGGCAAATAAAAGTGACCTTTTACACTG

6418/6881
FIGURE 5925

GGCCGTTGAGGAGGTGCAGGGAGAGGAGCGGGAGGGCTCTGGGTGGCTGCCAAGGGGGAGCTCTGCGCTCAGACC
CTCAACTAAGACCAGGAGGTGCCTGATGAGGCCCCAGCCTGCAGAGCCAGCTCCTGGTGGAAGAGGAAATGAGGC
ATGCTCCATTCAATTCGGAGGTCACGAACGAGATCACGCCGGTGCTGTCGTACTCCTACCTGGCCGTGCTGGTGCC
CGTGTTCTGCTCACCAGCTACCTGCGCTACACGCCGGTGCTGCTGCTGCAGGGGGCTCAGCTTCGTGTCGGTGCTG
GCTGCTGCTGCTGCTGGGCCACTCGGTGGCGCACATGCAGCTCATGGAGCTCTTCTACAGCGTCACCATGGCCGC
GCGCATCGCCTATTCCTCCTACATCTTCTCTCTCGTGCGGCCCGCGCGCTACCAGCGTGTGGCCGGCTACTCGCG
CGCTGCGGTGCTGCTGGGCGTGTTACACAGCTCCGTGCTGGGCCAGCTGCTGGTCACTGTGGGCCGAGTCTCCTT
CTCCACGCTCAACTACATCTCGCTGGCCTTCCTCACCTTCAGCGTGGTCCTCGCCCTCTTCCTGAAGCGCCCCAA
GCGCAGCCTCTTCTTCAACCGCGACGACCGGGGGCGGTGCGAAACCTCGGCTTCGGAGCTGGAGCGCATGAATCC
TGGCCCAGGCGGGAAGCTGGGACACGCCCTGCGGTGGCCTGTGGGGACTCAGTGCTGGCGCGGATGCTGCGGGA
GCTGGGGG

6419/6881
FIGURE 5926A

CACTCTGGCTGGGAGCAGAAGGCAGCCTCGGTCTCTGGGCGGCGGCGGCGGCCACTCTGCCCTGGCCGCGCTGT
GTGGTGACCGCAGGCCCCAGACATGAGGGCGGCGCGTGTCTGTCTGCCCCCTGCTGTCTGCAGGCCTGCTGGACAGC
CGCGCAGGATGAGCCGAGACCCCGAGGGCCGTGGCCTTCCAGGACTGCCCCGTGGACCTGTTCTTTGTGTGCTGGA
CACCTCTGAGAGCGTGGCCCTGAGGCTGAAGCCCTACGGGGCCCTCGTGGACAAAGTCAAGTCTTTCACCAAGCG
CTTCATCGACAACCTGAGGGACAGGTACTACCGCTGTGACCGAAACCTGGTGTGGAACGCAGGCGCGCTGCACTA
CAGTGACGAGGTGGAGATCATCCAAGGCCTCACGCGCATGCCTGGCGGCGCGACGCACTCAAAAGCAGCGTGGGA
CGCGGTCAAGTACTTTGGGAAGGGCACCTACACCGACTGCGCTATCAAGAAGGGGCTGGAGCAGCTCCTCGTGGG
GGGCTCCACCTGAAGGAGAAATAAGTACCTGATTGTGGTGACCGACGGGCACCCCTGGAGGGCTACAAGGAACC
CTGTGGGGGGCTGGAGGATGCTGTGAACGAGGCCAAGCACCTGGGCGTCAAAGTCTTCTCGGTGGCCATCACACC
CGACCACCTGGAGCCGCGTCTGAGCATCATCGCCACGGACCACACGTACCGGCGCAACTTCACGGCGGCTGACTG
GGGCCAGAGCCGCGACGCAGAGGAGGCCATCAGCCAGACCATCGACACCATCGTGGACATGATCAAAAATAACGT
GGAGCAAGTGTGTCTGCTCCTTCGAATGCCAGCCTGCAAGAGGACCTCCGGGGCTCCGGGGCGACCCCGGCTTTGA
GGGAGAACGAGGCAAGCCGGGGCTCCAGGAGAGAAGGGAGAAGCCGGAGATCCTGGAAGACCCGGGGACCTCGG
ACCTGTTGGGTACCAGGGAATGAAGGGAGAAAAGGGAGCCGTGGGGAGAAGGGCTCCAGGGGACCCAAGGGCTA
CAAGGGAGAGAAGGGCAAGCGTGGCATCGACGGGGTGGACGGCGTGAAGGGGGAGATGGGGTACCCAGGCCTGCC
AGGCTGCAAGGGCTCGCCCCGGGTTTGACGGCATTCAAGGACCCCTGGCCCCAAGGGAGACCCCGGTGCCCTTTGG
ACTGAAAGGAGAAAAGGGCGAGCCTGGAGCTGACGGGGAGGCGGGGAGACCAGGGAGCTCGGGACCATCTGGAGA
CGAGGGCCAGCCGGGAGAGCCTGGGCCCCCGGAGAGAAAGGAGAGGCGGGGACCCAGGCACGCGGGGACCAAGAGG
CGGTGCCCCCGGGGAGCGGGGTGGCCCTGGAGAGAGAGGACCACGGGGGACCCAGGCACGCGGGGACCAAGAGG
AGACCCTGGTGAAGCTGGCCCCGAGGGTGATCAGGGAAGAGAAGGCCCGTTGGTGTCCCTGGAGACCCGGGCGA
GGCTGGCCCTATCGGACCTAAAGGCTACCGAGGCGATGAGGGTCCCCAGGGTCCGAGGGTGCCAGAGGAGCCCC
AGGACCTGCCGACCCCTGGAGACCCGGGGCTGATGGGTGAAAGGGGAGAAGACGGCCCCGCTGGAAATGGCAC
CGAGGGCTTCCCCGGCTTCCCCGGGTATCCGGGCAACAGGGGCGCTCCCGGATAAACGGCACGAAGGGCTACCC
CGGCCTCAAGGGGGACGAGGGAGAAGCCGGGGACCCCGAGACGATAACAACGACATTGCACCCCGAGGAGTCAA
AGGAGCAAAGGGGTACCGGGGTCCCCGAGGGCCCCAGGGACCCCGAGGACACCAAGGACCGCCTGGGCCGGACGA
ATGCGAGATTTTGACATCATCATGAAAATGTGCTCTTGCTGTGAATGCAAGTGCGGCCCCATCGACCTCCTGTT
CGTGTGGACAGCTCAGAGAGCATTGGCCCTGCAGAACTTCGAGATTGCCAAGGACTTCGTCTGTAAGGTATCGA
CCGGCTGAGCCGGGACGAGCTGGTCAAGTTCGAGCCAGGGCAGTCGTACGCGGGTGTGGTGCAGTACAGCCACAG
CCAGATGCAGGAGCACGTGAGCCTGCGCAGCCCCAGCATCCGGAACGTGCAGGAGCTCAAGGAAGCCATCAAGAG
CCTGCAGTGGATGGCGGGCGGCACCTTCACGGGGGAGGCCCTGCAGTACACGCGGGACCACTGCTGCCGCCAG
CCGAACAACCGCATCGCCCTGGTCACTGACGGGCGCTCAGACACTCAGAGGGACACCACACCGCTCAACGT
GCTCTGCAGCCCCGGCATCCAGGTGGTCTCCGTGGGCATCAAAGACGTGTTTGACTTTCATCCAGGCTCAGACCA
GCTCAATGTCAATTTCTTGCCAAGGCCTGGCACCATCCAGGGCCGGCCCGGCTCTCGCTGGTCAAGGAGAACTA
TGCAGAGCTGCTGGAGGATGCCTTCTTGAAGAATGTACCGCCAGATCTGCATAGACAAGAAGTGTCCAGATTA
CACCTGCCCCATCACGTTCTCTTCCCCGGCTGACATCACCATCCTGCTGGACGGCTCCGCCAGCGTGGGCAGCCA
CAACTTTGACACCACCAAGCGCTTCGCCAAGCGCCTGGCCGAGCGCTTCTTACAGCGGGCAGGACGGACCCCGC
CCACGACGTGCGGGTGGCGGTGGTGCAGTACAGCGGCACGGGCCAGCAGCGCCAGAGCGGGCGTCTGTCAGTT
CCTGCAGAACTACACGGCCCTGGCCAGTGCCGTGATGCCATGGACTTTATCAACGACGCCACCGACGTCAACGA
TGCCCTGGGCTATGTGACCCGCTTCTACCGCGAGGCCTCGTCCGGCGCTGCCAAGAAGAGGCTGCTGCTCTTCTC
AGATGGCAACTCGCAGGGCGCCACGCCCCGCTGCCATCGAGAAGGCCGTGCAGGAAGCCAGCGGGCAGGCATCGA
GATCTTCGTGGTGGTCTGTGGGCGCCAGGTGAATGAGCCCCACATCCGCGTCTGGTACCGGCAAGACGGCCGA
GTACGACGTGGCCTACGGCGAGAGCCACCTGTTCCGTGTCCCCAGCTACCAGGCCCTGCTCCGCGGTGTCTTCCA
CCAGACAGTCTCCAGGAAGGTGGCGCTGGGCTAGCCACCCCTGCACGCCGGCACCAAAACCTGTCTCTCCACCCC
TCCCCACTCATCACTAAACAGAGTAAAATGTGATGCGAATTTTCCCGACCAACCTGATTGCTAGATTTTTTTTA
AGGAAAAGCTTGGAAGCCAGGACACAACGCTGCTGCCTGCTTTGTGCAGGGTCCCTCCGGGGCTCAGCCCTGAGT
TGGCATCACCTGCGCAGGGCCCTCTGGGGCTCAGCCCTGAGCTAGTGTACCTGCACAGGGCCCTCTGAGGCTCA
GCCCTGAGCTGGCGTCACCTGTGCAGGGCCCTCTGGGGCTCAGCCCTGAGCTGGCCTCACCTGGGTTCCCCACCC
CGGGCTCTCTGCCCTGCCCTCCTGCCCGCCCTCCCTCCTGCCTGCGCAGCTCCTTCCCTAGGCACCTCTGTGCT

6420/6881

FIGURE 5926B

GCATCCCACCAGCCTGAGCAAGACGCCCTCTCGGGGCCTGTGCCGCACTAGCCTCCCTCTCCTCTGTCCCCATAG
CTGGTTTTTCCCACCAATCCTCACCTAACAGTTACTTTACAATTAAACTCAAAGCAAGCTCTTCTCCTCAGCTTG
GGGCAGCCATTGGCCTCTGTCTCGTTTTGGGAAACCAAGGTCAGGAGGCCGTTGCAGACATAAATCTCGGCGACT
CGGCCCCGTCTCCTGAGGGTCCTGCTGGTGACCGGCCTGGACCTTGGCCCTACAGCCCTGGAGGCCGCTGCTGAC
CAGCACTGACCCCGACCTCAGAGAGTACTCGCAGGGGCGCTGGCTGCACTCAAGACCCTCGAGATTAACGGTGCT
AACCCCGTCTGCTCCTCCCTCCCGCAGAGACTGGGGCCTGGACTGGACATGAGAGCCCCTTGGTGCCACAGAGGG
CTGTGTCTTACTAGAAACAACGCAAACCTCTCCTTCCTCAGAATAGTGATGTGTTCGACGTTTTATCAAAGGCC
CCTTCTATGTTTCATGTTAGTTTTGCTCCTTCTGTGTTTTTTCTGAACCATATCCATGTTGCTGACTTTTCCAA
ATAAAGGTTTTCACTCCTC

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6421/6881
FIGURE 5927

TGCTGTGGAAACTCTTCTGGGGCCCCGGGGGGGACTACCCCTGCCTGCCGTGTGCATTGCAGGAGTGTGACGTCATG
ACCTACGTGAGGGAGACCTGCGGGTGCTGCGGTGAGGCACTGCCCACGGCAGGGTCGGGGCCCATGCACCGGGTG
GAGGGCGGGAGTGCAGCAGGGCTGGGTCACTGCTGGGTCTGCATGTGCACGTGACCCTAGGGTCTGAGGTCTCC
CCGGTACCCCCGATGACCCTGCCACCCCCCAGACTGTGAGAAGCGCTGTGGCGCCCTGGACGTGGTCTTCGTC
ATCGACAGCTCCGAGAGCATTGGGTACACCAACTTCACACTGGAGAAGAACTTCGTCATCAACGTGGTCAACAGG
CTGGGTGCCATCGCTAAGGACCCCAAGTCCGAGACAGGTGAGCGGGGCAGGGGCGGGTGCAGCATTGCGGGGGGC
CGGGCGGGGCGTGGGAGGCGATGAGATGGGAGAAGTCCAGACGCGTCCCTCCAACGAGGGCCTCTGCATGGCTGG
GGATGCCCCAGACCCCGAGGCCTCTGGCAACGACCTCACGCGTGCGGCTTGAGGGACGCGTGTGGGCGTGGTGC
AGTACAGCCACGAGGGCACCTTTGAGGCCATCCAGCTGGACGACGAACGTATCGACTCCCTGTCGAGCTTCAAGG
AGGCTGTCAAGAACCTCGAGTGGATTGCGGGCGGCACCTGGACACCCTCAGCCCTCAAGTTTGCCTACGACCGCC
TCATCAAGGAGAGCCGGCGCCAGAAGACACGTGTGTTTGCGGTGGTCAACGACGCGGGCGCCACGACCCCTCGGG
ACGATGACCTCAACTTGCGGGCGCTGTGCGACCGCGACGTACAGTGACGGCCATCGGCATCGGGGACATGTTCC
ACGAGAAGCACGAGAGTGAAAACCTCTACTCCATCGCCTGCGACAAGCCACAGCAGGTGCGCAACATGACGCTGT
TCTCCGACCTGGTCTGCTGAGAAGTTCATCGATGACATGGAGGACGTCTCTGCCCCGGGTGAGCGTGTGGGCGCGG
GGCAGTGGCGCGAGGAGCAGCAGGCCCCAGCCGCTGTCTAGCGTGAGCCCCAGGGACACCCCTCACCTGAGGGAT
GAATGTGCAGCCCAGGATCTTGGGCTGTGGGTGGGAAGGGGTGCGGGCCCTCTCGGGGCTGCAGGGCAGAGGCCAG
CTGCACCCCTGAGCCTGTCTAGGCAGATCAGTGAACGGCCGCTGAGGGTTCGCTAGGGACTGACCCTGGCCTGGCC
CGGCCTCTCTCCTCTCTTCCAGACCCCTCAGATCGTGTGCCCGACCTTCCCTGCCAAACAGGTAATGCAGGGCAC
CCTGAGCCACCACCCAGACTAGCAAAGCAGCCCTGGTGTCTTCTCCTCGAGGGCCGGGCTGGGGGAGGGGCC
GTGCAGGGACCCGGGGGGCGGCGGAGCCACTGCGGAGGCTGCTCCTTAGGGAGATGGCCCCAGGATGGCAGCACA
GGGGAGGAGGGGCTTGGGGAAGGCAGGCTCCAGGAACGCAGGAACAGCATCACGAGGCCATGAGGTGGGTGCTG
CTAGCCTGGCGCTGTGCTCGGCATGTGGCCACTGGTCTTGAAGGCCACCATGGGCCTTGAGTCTCCCTCAGCT
GCCGCCAGCTCCCATGGGCTGGCCGTGCATGTGCCACTCGGAGGAAGCCCTGGATTAGTGAGTGAACCATCC
CGGGGTGGAAGCACTGACACCCCCAGCACCAGCAGGTCTTGCTCCAACCCCTGGCCTGCCTCGGAGCTGCAGCTG
CGGCTCTCACATCTCTGGGAGTGGGGGAGCCCATGTCCCGGATGTGGCCACGTGGGTGTGAAGCTGGAGCTGGG
GGTGCCGTCCAGGCTCTGCTGGACGTGGTGTGCCCCCATGGTGCACGTGCTGCACCGTACCTGGGCCACAGGAG
GTCCCCGGGGGCGTTAGGAGCTGAGTCCCCCTCAGTGAGCCGTCCCCCTCAGGAGTGTGAGGGTAGGGATGCCAT
GGAGACAGGGTGGGAGGGTCCGACCTGGAGGACCACAGGGAGGAAACCTCAGGGTCTGCGGTACGAAGTCAGCGC
TTCCTCAGCACGCGGGTGCGGTGTGCGTTGGGGCGTTCCATGGGGAG

6422/6881
FIGURE 5928

GCAGTGAAAATGTTATTAGTTTTGAGGGGGTTTGGGAAGCCCAGCGGTACCTGAGGAGTTTCTGGACATTTAAGC
CGGTTCCCTAGGTGTGGCCTTAACAGGGAGGCTGCCCTTCCCTTTCACTGAATGAGCTGCGTCACTCATAAGCTCAC
TGAGGGAACCCCATCTGCCAGCTCGTGCGTGCTCAGACGGCGTCCATGTCTCAAGCGTTCTGTGAAGGCTGCGGT
GCAGCGTGAGGTACCCCTGCTGTGTTAGAGCTTTGCTCACTGCCTGCGGGGCTGGACCGTTGCACCTCCAGGGC
CCCCAGAAACCGAGTTTCGGGTGAGGGTCCCTCTGTGTGCATTCTGGGGGTCCATGTACCAGCTGTGACGACGTC
CAGGGGTTGGGCTGAGAAGCAGACACCCCTTGGGGAACTGGCTCTGTCCCTCCCCCTCCCCATCCAGGAGCTGA
GGTCTTGGTGAGGCCACAGGGCCAGGTCCACGCAAGGACTGTCCGTGTCTGTCTGTGGTCTCTGGCCCCACGT
GACACCCACACGTGTGGTAGGCAGCCTGGCCTGGGTGTGGCTATGGCCAGGCCCCAAGCTGTCCCCGATGCC
AGGGCTGGTGACCACCCAGGCAGGTGGGGGCCCCACTTGGTAACAGAGTCATAGGGCAGAACCCACCTGGGCTGC
CACAGAAGGTCTGGCTGCCCCGTGTGCCACTGTCTCCCAACCATGGCCAATCAGAAGAGTCAGGGGCTCCTGGTCT
TTCCGGGAGGGACGTGGCCAGCCAGCTCTAGGTGTTCTGAGCAGCTCTGGGACCCAGCGATTGAGGGGTCAGGC
TGGGGGTGTGAGAGCCAGGGTCCCTCCTTAAGTACCTCCCACTACACAGACAGTGGCCCTTTTGTGGGCAGCAA
ATTCTTGAGCCATGAAAGGATGCTTTGGGCCCTTCCCTCCCAGGAGGGCAGCCTGTGCAGGGATGGTGCTCAGC
AGGTGGACAGGGCCTGGGGCCTGTGTGAGGGTCTCAGGCCTGGGAGCACCAGCAGAGGAGATGGCGGCTCCCAGC
AGTGCCGCTGAAAGTGTCTTGGGCTAAGGACCCACACCCAGGGCTGCCCTGCAGAAACGCCCCCGCAGAGCCCA
GTGGTCTGTGAGGTTGCAGGCAGGGTGCGAATGGAAGGGCACAGGTGCGGGGCTGGCACCTGCCCGGTCTTGCCC
ACCTCCCCCTCCGCCCAGCCCGCACCTGCGTCTCCCCACAGAGCTGTCCGTGGCACAGTGCACGCAGCGGCCCGTG
GACATCGTCTTCTGCTGGACGGCTCCGAGCGGCTGGGTGAGCAGAACTTCCACAAGGCCCCGGCGCTTCTGTGGAG
CAGGTGGCGCGCGGCTGACGCTGGCCCGGAGGGACGACACCCTCTCAACGCACGCGTGGCGCTGCTGCAGTTT
GGTGGCCCCGGCGAGCAGCAGGTGGCCTTCCCGCTGAGCCACAACCTCACGGCCATCCACGAGGCGCTGGAGACC
ACACAATACCTGAACTCCTTCTCGCACGTGGGCGCAGGCGTGGTGACGCCATCAATGCCATCGTGCGCAGCCCCG
CGTGGCGGGGCCCCGAGGCACGCAGAGCTGTCTTCTGTGTTTCTCACGGACGGCGTCACGGGCAACGACAGTCTG
CACGAGTCGGCGCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTGGGCAGCGACGTGGACATG
GACGTGCTCACCACGCTCAGCCTGGGTGACCGCGCCGCGGTGTTCCACGAGAAGGACTATGACAGCCTGGCGCAA
CCCGGCTTCTTCGACCGCTTATCCGCTGGATCTGCTAGCGCCGCGCCCGGGCCCCGAGTCGAGGGTCTGTGAG
CCCACCCGTCATGGTGCTAAGCGGGCCCGGTCCACACGGCCAGCACCCTGCTCACTCGGACGACGCCCTG
GGCCTGCACCTCTCCAGCTCCTCCCACGGGGTCCCCGTAGCCCCGGCCCCCGCCAGCCCCAGGTCTCCCCAGGC
CTCCGCAGGCTGCCCCGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCCTGAGCTCTG
GAGCAAGCCCTGACCCAATAAAGGCTTTGAACCC

6423/6881
FIGURE 5929

CACGAGGCGCTGGAGACCACACAATACCTGAACTCCTTCTCGCACGTGGGCGCAGGCGTGGTGCACGCCATCAAT
GCCATCGTGCGCAGCCCGCGTGGCGGGGGCCGGAGGCACGCAGAGCTGTCCTTCGTGTTCCCTACGGACGGCGTC
ACGGGCAACGACAGTCTGCACGAGTCGGCGCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTG
GGCAGCGACGTGGACATGGACGTGCTCACCACGCTCAGCCTGGGTGACCGCGCCGCCGTGTTCCACGAGAAGGAC
TATGACAGCCTGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCTGAGCTCTGGAGCA
AGCCCTGACCCAATAAAGGCTTTGAACC

6424/6881
FIGURE 5930

CCGGAGGCACGCAGAGCTGTCCTTCGTGTTCCCTCACGGACGGCGTCACGGGCAACGACAGTCTGCACGAGTCGGC
GCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTGGGCAGCGACGTGGACATGGACGTGCCAC
CCCGTCCATGGTGCTAAGCGGGCCCCGGGTCCACACGGCCAGCACCGCTGCTCACTCGGACGACGCCCTGGGCCT
GCACCTCTCCAGCTCCTCCACGGGGTCCCCGTAGCCCCGGCCCCCGCCCAGCCCCAGGTCTCCCCAGGCCCTCC
GCAGGCTGCCCCGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCCTGAGCTCTGGAGCA
AGCCCTGACCCAATAAAGGCTTTGAACCC

6425/6881
FIGURE 5931

CCCTTGCTACTGCTCATGGGTGTGGAGACTGATATTCTGGAAGACTGATAGGCAGATTACTATTAACAAACAC
ATAGTCTGTGGCCAGCAAAGCCACCCCAATCCCTGCACAAGGGTAAAAGGCCAGCATTAGAGCACTGCAGCAGC
AATGACGGAGGGGCACGTGTCTGCGGCGCCGAGGGGGCCCTACAAGACCGAGCCCGCCACCGACCTCGGCCGCTG
GCGACTCAACTGCGAGAGGGGGCCGGCAGACGTGGACCTACCTGCAGGACGAGCGCGCCGGCCGCGAGCAGACCGG
CCTGGAAGCCTACGCCCTGGGGCTGGACACCAAGAATTACTTTAAGGACTTGCCCAAAGCCCACACCGCCTTTGA
GGGGGCTCTGAACGGGATGACATTTTACGTGGGGCTGCAGGCTGAGGATGGGCACCTGGACGGGTGATTATGGTGG
CCCACTTTTCTCCTGCCAGGCCTCCTGATCACTTGCCACGTGGCAGCATCCCTCTGCCAGCCGGATACAGAGA
AGAGATTGTGCGGTACCTGCGGTCACTGCAGCTCCCTGACGGTGGCTGGGGCCTGCACATTGAGGATAAGTCCAC
CGTGTITGGGACTGCGCTCAACTATGTGTCTCTCAGAATTCTGGGTGTTGGGCCTGACGATCCTGACCTGGTACG
AGCCCGGAACATTCTTCACAAGAAAGGTGGTGTGTGGCCATCCCTCCTGGGGGAAGTTCTGGCTGGCTGTCTT
GAATGTTTACAGCTGGGAAGGCCTCAATACCCTGTTCCAGAGATGTGGCTGTTTCTGACTGGGCACCGGCACA
CCCTCCACACTCTGGTGCCTGCGGCAGGTGTACCTGCCCATGAGCTACTGCTACGCCGTTTCGGCTGAGTGC
CGCGGAAGACCCGCTGGTCCAGAGCCTCCGCAGGAGCTCTATGTGGAGGACTTCGCCAGCATTGACTGGCTGGC
GCAGAGGAACAACGTGGCCCCGACGAGCTGTACACGCCCCACAGCTGGCTGCTCCGCGTGGTATATGCGCTCCT
CAACCTGTATGAGCACCACCACAGTGGCCACCTGCGGCAGCGGGCCGTGCAGAAGCTGTATGAACACATTGTGGC
CGACGACCGATTACCAAGAGCATCAGCATCGGCCGATCTCGAAAACCATCAACATGCTTGTGCGCTGGTATGT
GGACGGGCCCCGCTCCACTGCCTTCCAGGAGCATGTCTCAGAATCCCGGACTATCTCTGGATGGGCCTTGACGG
CATGAAAATGCAGGGCACCAACGGCTCACAGATCTGGGACACCGCATTTCGCCATCCAGGCTCTGCTTGAGGCGGG
CGGGCACACAGGCCCGAGTTTTCTGCTCCTGCCTGCAGAAGGCTCATGAGTTCTGAGGCTCTCACAGGTCCAGA
TAACCTCCCGACTACCAGAAGTACTACCGCCAGATGCGCAAGGGTGGCTTCTCCTTCAGTACGCTGGACTGCGG
CTGGATCGTTTTCTGACTGCACGGCTGAGGCCTTGAAGGCTGTGCTGCTCCTGCAGGAGAAGTGTCCCCATGTAC
CGAGCACATCCCCAGAGAACGGCTCTGCGATGCTGTGGCTGTGCTGCTGAACATGAGAAATCCAGATGGAGGGTT
CGCCACCTATGAGACCAAGCGTGGGGGGCATTGCTGGAGCTGCTGAACCCCTCGGAGGCTTTCGGGGACATCAT
GATTGACTACACCTATGTGGAGTGCACCTCAGCCGTGATGCAGGCGCTTAAGTATTTCCACAAGCGTTTCCCGGA
GCACAGGGCAGCGGAGATCCGGGAGACCCTCACGCAGGGCTTAGAGTTCTGTGCGCGGCAGCAGAGGGCCGATGG
CTCCTGGGAAGGCTCCTGGGGAGTTTGCTTACCTACGGCACCTGGTTTGGCCTGGAGGCCTTCGCTGTATGGG
GCAGACCTACCGAGATGGGACTGCCTGTGCAGAGGTCTCCCGGCCTGTGACTTCTGTGCTCCCGGCAGATGGC
AGACGGAGGCTGGGGGGAGGACTTTGAGTCTGCGAGGAGCGCGTTATTTGCAGAGTGCCCGATCCAGATCCA
TAACACATGCTGGGCCATGATGGGGCTGATGGCCGTTTCGGCATCCTGACATCGAGGCCAGGAGAGAGGAGTCCG
GTGTCTACTTGAGAAACAGCTCCCCAATGGCGACTGGCCGCAGGAAAACATTGCTGGGGTCTTCAACAAGTCTG
TGCCATCTCCTACACGAGCTACAGGAACATCTTCCCATCTGGGCCCTCGGCCGCTTCTCCCAGCTGTACCCTGA
GAGAGCCCTTGCTGGCCACCCCT**TGA**GAACATGCCTACCTGCTGGGTGCCGTCTGTGCGTTCCAGTGAGGCCAAGG
GGTCTGCGCGGGTTGGGGAGCCCTCCATAACCTGTCTTGGGCTCCAACCCCTCAACCTCTATCTCATAGATG
TGAATCTGGGGGCCAGGCTGGAGGCAGGGATGGGGACAGGGTGGGTGGCTTAGACTCTTGATTTTTACTGTAGGT
TCATTTCTGAAAGTAGCTTGTGCGGCTTGGGTGAGGAAGGGGGCACAGGAGCCGTGACCCCTGAGGAGGCACAGC
GCCTTCTGCCACCTCTGGGCACGGCCTCAAGGTAGTGAGGCTAGGAGGTTTTTTCTGACCAATAGCTGAGTTCTT
GGGAGAGGAGCAGCTGTGCCTGTGTGATTCTTAGTGTGAGTGGGCTCTGGGCTGGGGTTCGGCCCTGGGCAGGC
TTCTCCTGCACCTTTTGTCTGCTGGGCTGAGGGACACGAGGGCAACCCTGTGACAATGGCAGGTAGTGTGCATCC
GTGAATAGCCAGTGCGGGGGTGTCTCATGGAGCATCCTGAGGCCGTGCAGCAGGGAGCCCCATGCCCTGGGTC
GTGAGCTTGCCTGCGTATGGGGTGGTGTCTCATGGAGCCTCATGCCCCCTGGGTGCTGAGCTCGCCTGAGTATGGGGT
GGTGTCTATGGAGCCGCATACCCCTGGGTGTGAGCTCGCCTGCATATGCAGGGTCTGTCTATGGAACATCCCAAGT
CTGTGCAGCAGGGAGCCCCATGCCCTGGGACATGAACCCACCTGCGTGGAATGCTGTTTGTGAGGTGTCTACAG
GGTTTATAGTAGTCTTGTGGACACAGAAATGCACAGGGGACACTTACGGACACAGA

6426/6881
FIGURE 5932

MTEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDGTKNYFKDLPPKAHTAFE
GALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKST
VFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGNLTLFPEMWLFPDWAPAH
PSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALL
NLYEHHSALRQRAVQKLYEHIVADDRFTKSISIGPI SKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDG
MKMQGTNGSQIWDTAFAIQALLEAGGHRPEFSSCLQKAHEFLRLSQVPDNPPDYQKYRQMRKGGFSFSTLDCG
WIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDAVAVLLNMNRNPDGGFATYETKRGGHLELLNPSEVFGDIM
IDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMG
QTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYLSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVR
CILEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYPERALAGHP

6427/6881
FIGURE 5933A

GTAATACTTAATTACCTTCTAATAATTGGAGCAGAAGATGAACCCAACTAATCCTTTTCAGTGGGCAGCAGCCTAG
TGCTTTTTCGGCGTCTTCTAGTAATGTAGGAACACTTCCATCTAAGCCGCCATTTTCGATTTGGTCAACCTTCTCT
TTTTGGACAAAACAGTACCTTATCTGGGAAGAGCTCGGGATTTTCACAGGTATCCAGCTTTCCAGCGTCTTCTGG
AGTAAGTCATTCCTCTTCAGTGCAAACATTAGGGTTTACCCAAACCTCAAGTGTGGACCTTTTCTGGACTTGA
GCACACTTCCACCTTTGTGGCTACCTCTGGGCCTTCAAGTTCATCTGTGCTGGGAAACACAGGATTTAGTTTTAA
ATCACCCACCAGTGTGGGGCTTTCCCAAGCACTTCTGCTTTTGGACAAGAAGCTGGAGAAATAGTGAACCTCTGG
TTTTGGGAAAACAGAATTCAGCTTTAAACCTCTGGAAAATGCAGTGTCAAACCAATACTGGGGGCTGAATCTGA
GCCAGAGAAAACCCAGAGCCAAATTGCTTCTGGGTTTTTACATTTTCCACCCAATTAGTAGTGCACCTGGAGG
CCTGGCCCCCTTTCTCTTTTCTCAAGTAACAAGTAGTTTCAGCTACCACTTCAAATTTTACCTTTTCAAACCTGT
TAGTAGTAATAATTCAATATCTGCCTTTACCCCTGCTTTGTCAAACCAAAAATGTAGAGGAAGAGAAGAGAGGACC
TAAGTCAATATTTGGAAGTTCTAATAATAGCTTCAGTAGCTTCCCTGTATCATCTGCGGTTTTGGGCGAACCTTT
CCAGGCTAGCAAAGCAGGTGTGAGGCAGGGGTGTGAAGAAGCTGTTTCCAGGTGGAACCACTTCCAGCCTAAT
GAAAGGACTGAAAAGGAAGGAGGACCAGGATCGCTCCCCAAGGAGACATGGCCACGAGCCAGCAGAAGATTTCGA
TCCTCTGTCCCGGGGCGATCATCCTCCAGACAAACGACCTGTCCGCTGAATCGACCCCGGGGAGGTACTTTATT
TGGTCGGACGATACAGGATGTTTTCAAAGCAATAAGGAAGTAGGTCTGTGGCAACAAGGAGGCCAAAAAGGA
AACTGGCTTTGTTGAGTCTGCAGAAAGTGACCACATGGCTATCCCAGGAGGGAATCAGTCTGTCTGGCACCTTC
CCGGATTCCAGGTGTGAATAAAGAGGAAGAACTGAAAGTAGAGAGAAGAAAGAAGATTCTCTAAGAGGAACTCC
GGCGCGTCAGAGTAACAGAAGCGAGAGCACAGACAGTCTTGGGGGCTTGTCTCCCTCTGAAGTCACAGCCATCCA
GTGCAAGAACATCCCTGACTACCTCAACGACAGGACCATTCTGGAGAACCATTTTGGCAAAATTGCTAAAGTGCA
GCGCATCTTTACCAGGCGCAGCAAAAAGCTTGCAGTGGTACATTTCTTTGATCATGCATCTGCAGCCCTGGCTAG
AAAGAAGGGGAAAAGTTTGCATAAAGACATGGCTATCTTTTGGCACAGGAAGAAAATAAGCCCCAATAAGAAACC
CTTTTCCCTGAAGGAGAAGAAACCAGGTGACGGTGAAGTCAGCCCGAGCACAGAGGATGCACCCTTTTCAGCACTC
TCCTCTTGGCAAGGCCGAGGGAGGACTGGTGTAGCAGCCTCCTGAATAAAAGCTCTCCAGTGAAGAAGCCAAG
TCTTCTAAAGGCCACCAATTCGAGGGAGACTCTTTTGAAGTCAAGCCTCCGAGGGCTCCGAGGGCCTCGGGCCATG
TGTGCTCTCCCTCAGTACCCTGATAGGCACTGTGGCTGAGACATCCAAGGAGAAGTACCGCCTGCTTGACCAGAG
AGACAGGATCATGCGGCAAGCTCGGGTGAAGAGAACCAGTCTGGACAAAGCGAGGACTTTTGTGGCACCTGCCT
GGATATGTGTCTGAGAAGGAGAGGTACATGCGGGAGACCCGTAGCCAGCTGAGCGTGTTCGAAGTGGTCCCAGG
GACTGACCAGGTGGACCACGCAGCAGCTGTGAAAGAGTACAGTCGGTCTCCGCGGATCAGGAGGAGCCCCCTGCC
CCACGAGCTGCGGCCCTTGCCAGTGTCTCAGCAGGACCATTGGACTACCTGGTGACCCAGATCATGGACCAGAAGGA
GGGCAGCTGCGGGATTGGTATGACTTCGTGTGGAACCGCACGCGTGGCATACGGAAGGATATCACGCAGCAGCA
CCTCTGTGACCCCTGACGGTGTCCCTGATTGAGAAGTGACCCCGTTTACATCCACTGTGCCCACCTTCATGTG
TGAGGAGCCCATGTCTCTTTGATGCCAAGATCAATAATGAGAACATGACCAAGTGCCTGCAGAGCCTGAAGGA
GATGTACCAGGACCTGAGAAACAAGGTGTCTTCTGTGCCAGCGAAGCGGAGTTCCAGGGCTACAATGTTCTGTCT
CAGTCTCAACAAGGGAGACATCCTAAGAGAAGTACAACAGTTCCATCCTGCTGTTAGAACTCATCTGAGGTGAA
ATTTGCTGTTTCAGGCTTTTGTGTCATTGAACAGTAATAATTTTGTGAGATTTTCAAACCTGGTCCAGTCAGCTTC
TTACCTGAACGCTTGTCTTTTACACTGTTACTTTCAGTCAGATCCGCAAGGATGCTCTCCGGGCGCTCAACTTTGC
GTACACGGTGAGCACACAGCGATCTACCATCTTTCCCTGGATGGTGTGGTGCAGTGTCTGTGTTTCAGAGACTG
TGAAGAGGCCACCGACTTCCCTACCTGCCACGGCCTCACCGTTTCCGACGGCTGTGTGGAGCTGAACCGGTCTGC
ATTCCTGGAACCAGAGGGATTATCCAAGACCAGGAAGTCGGTGTATTACTAGGAAGCTGACGGTGTGAGTCGG
GGAAATTGTGAACGGAGGGCCATTGCCCCCGTCCCTCGTCACACCCCTGTGTGCAGCTTCAACTCCCAGAACAA
GTACATCGGGGAGAGCCTGGCCGCGGAGCTGCCCCGTACGACCCAGAGACCCGGCTCCGACACAGTGGGCGGAGG
GAGAGGAGAGGAGTGTGGTGTAGAGCCGATGCACCCCTGTCCAGTCTCCACAGTCTCTACCAGCCCTGCGCC
CTCACCAGTGCCTCTGCCTCTGTCTGGCACTGACCCCGTCTGTGGCGCCAGCCTCTTCCAGCTGTCTGTGCA
GCCTGAACCACCGCTCCAGAGCCCGTGGCCATGTACTCTGACGAGGACCTGGCGCAGGTGGTGGACGAGCTCAT
CCAGGAGGCCCTGCAGAGGGACTGTGAGGAAGTTGGCTCTGCGGGTGTGCTTACGCAGCTGCCGCCCTGGGTGT
TTCTAATGCTGTATGGAGGATTTGTTAACAGCTGCAACCACGGGCATTTTGGAGCACATTGCAGCTGAAGAAGT
GTCTAAGGAAAGAGAGCGAAGGGAGCAGGAGAGGCAGCGGGCTGAAGAGGAAAGGTTGAAACAAGAGAGAGAGCT
GGTGTTAAGTGAGCTGAGCCAGGGCCTGGCCGTGGAGCTGATGGAACCGCTGATGATGGAGTTTGTGAGGGAAAC

6428/6881
FIGURE 5933B

CTGCTCCCAGGAGTTGAAGAATGCAGTAGAGACAGACCAGAGGGTCCGTGTGGCCCGTTGCTGTGAGGATGTCTG
TGCCCACTTAGTGGACTTGTTTCTCGTGGAGGAAATCTTCCAGACTGCAAAGGAGACCCCTCCAGGAGCTTCAGTG
CTTCTGCAAGTATCTACAGCGGTGGAGGGAAGCTGTACAGCCCGCAAGAACTGAGGCGCCAAATGCGGGCTTT
CCCTGCTGCGCCCTGCTGCGTGGACGTGAGCGACCGGCTGAGGGCGCTGGCGCCCAGCGCAGAGTGCCCCATTGC
TGAAGAGAACCTGGCCAGGGGCTCCTGGACCTGGGCCATGCAGGGAGATTGGGCATCTCTTGCACCAGGTTAAG
GCGGCTCAGAAACAAGACAGCTCACCAGATGAAGGTTTCAGCACTTCTACCAGCAGCTGCTGAGTGATGTGGCATG
GGCGTCTCTGGACCTGCCATCCCTCGTGGCTGAGCACCTCCCTGGGAGGCAGGAGCATGTGTTTTGGAAGCTGGT
GCTGGTGTGTCGGGATGTAGAGGAGCAGTCCCCAGAGAGTTGTGGCAGAATTCTAGCAAATTGGTTAAAGCTCAA
GTTTCATGGGAGATGAAGGCTCAGTGGATGACACATCCAGCGATGCTGGTGGGATTTCAGACGCTTTCGCTTTTCAA
CTCACTTAGCAGCAAAGGGGATCAGATGATTTCTGTAACTGTGTATAAAGGTGGCCCCATGGCGCCCTCAGTGA
TGGTGCCATTGATGCTGTGGAGACACAGAAGGACCTCCTGGGAGCCAGTGGGCTCATGCTGCTGCTTCCCCCAA
AATGAAGAGTGAGGACATGGCAGAGGAGGACGTGTACTGGCTGTGCGCCTTGCTGCAGCTCAAGCAGCTCCTGCA
GGCTAAGCCCTTCCAGCCTGCGCTTCCCTCTGGTGGTCTTGTGCTTAGCCCAGGAGGGGACGCCGTTGAGAAGGA
AGTAGAAGATGCTCTGATGCTACAGGACTTGTTTTAGCTAAGCTGATTTTCAGATTACACTGTTACCGAGATCCC
TGATACCATTAAATGATCTACAAGGTTCACTAAGGTTTTGCAAGCAGTGCAGTGGCTGGTTTTCCCACTGCCCCCA
TTCCCTTGACCTCTGCTGCCAGACTCTCATTTCAGTACGTGCAAGACGGGATTGGCCATGAGTTTAGTGGCCGCTT
TTTCCATGACAGAAGAGAGAGGCGTCTGGGCGGTCTTGCTTCTCAGGAGCCTGGCGCCATCATTGAGCTGTTTTAA
CAGTGTGCTGCAGTTCTTGGCTTCTGTGGTGTCTTGAACAGCTGTGTGACCTGTCTGGCCTGTCACTGAGTT
TGCTGAGGCAGGGGGCAGCCGGCTGCTTCCCTCACCTGCACCTGGAATGCCCCAGAGCACCTGGCCTGGCTGAAGCA
GGCTGTGCTCGGGTTCCAGCTTCCGCAGATGGACCTTCCACCCCTGGGGGCCCCCTGGCTCCCCGTGTGCTCCAT
GGTTGTCCAGTACGCCTCCCAGATCCCCAGCTCACGCCAGACACAGCCTGTCTCCAGTCCCAGGTGGAGAACCT
GCTCCACAGAACCTACTGTAGGTGGAAGAGCAAGAGTCCCTCCCCAGTCCATGGGGCAGGCCCTCGGTTCATGGA
GATCCCATGGGATGATCTTATCGCCTTGTGTATCAACCACAAGCTGAGAGACTGGACGCCCCCGGCTTCCCTGT
TACATCAGAGGCGCTGAGTGAAGATGGTCAGATATGTGTGATTTTTTTTAAAAACGATTTGAAAAAATATGATGT
TCCTTTGTCTGGGAACAAGCCAGGTTGCAGACGCAGAAGGAGCTACAGCTGAGAGAGGGACGTTTGGCAATAAA
GCCTTTTTCATCCTTCTGCAAACAATTTCCCATACCATTGCTTCACATGCACCGTAACCTGGAAGAGGAGCACAGA
GTGTGCTCAAGAGGGGAGGATTCCCAGCACAGAGGATCTGATGCGAGGAGCTTCTGCTGAGGAGCTCTTGGCGCA
GTGTTTGTGCGAGCAGTCTGCTGCTGGAGAAAGAAGAGAACAAGAGGTTTGAAGATCAGCTTCAGCAATGGTTGTC
TGAAGACTCAGGAGCATTTACGGATTTAACTTCCCTTCCCTCTATCTTCTCAGACTCTAGTGTCTCTTTCTCA
CACTATTGAACCTGTGATGAAAACATCTGTAACCTACTAGCCCACAGAGTGACATGATGAGGGAGCAACTGCAGCT
GTCAGAGGCGACAGGAACGTGTCTAGGCGAACGACTAAAGCACCTGGAAAGGCTGATCCGGAGTTCAAGGGAAGA
GGAAGTTGCCTCTGAGCTCCATCTCTCTGCGCTGCTAGACATGGTGGACATTGAGCAGCCTGACCTGTGGGGAG
GGGTCTCTCCCGAAGAGTTTCTGTTTTTACTCAAAATAATGTTATTCTCAGATGCTTGATGCACTGTTGGAAAT
GTGATTAATTTAATCATGCAGATAAACCATTTAAATGTC

6429/6881
FIGURE 5934

MNPTNPFSGQQPSAFSASSSNVGTLPSPKPPFRFGQPSLFGQNSTLSGKSSGFSQVSSFPASSGVSHSSSVQTLGF
TQTSSVGPFSGLEHTSTFVATSGPSSSSVLGNTGFSFKSPTSVGAFFPSTSAFGQEAGEIVNSGFGKTEFSFKPLE
NAVFKPILGAESEPEKTQSQIASGFFTFSHPISSAPGGLAPFSFPQVTSSSATTSNFTFSKPVSSNNSLSAFTPA
LSNQNVEEEEKRGPKSIFGSSNNSFSSFPVSSAVLGEFFQASKAGVRQGCEEAVSQVEPLPSLMKGLKRKEDQDRS
PRRHGHEPAEDSDPLSRGDHPPDKRPVRLNRPRGGTLFGRTIQDVFKSNKEVGRLGNKEAKKETGFVESAESDHM
AIPGGNQSVLAPSRIPGVNKEETESREKKEDSLRGTPARQSNRSESTDSLGGLSPSEVTAIQCKNIPDYLNDR
ILENHFGKIAKVQRIFTRRSKQLAVVHFFDHASAAALARKKGKSLHKDMAIFWHRKKISPNKKPFSLKEKKPGDGE
VSPSTEDAPFQHSPLGKAAGRTGASSLLNKSSPVKKPSLLKAHQFEGDSFDSASEGSEGLGPCVLSLSTLIGTVA
ETSKEYRLLDQDRIMRQARVKRTDLDKARTFVGTCIDMCPEKERYMRETRSQLSVFEVVPDQVDHAAAVKE
YSRSSADQEEPLPHELRLPLVLSRTMDYLVLTQIMDQKEGSLRDWYDFVWNRTRGIRKIDITQQHLCPLTVSLIEK
CTRFHIHCAHFMCCEPMSSFDAKINNENMTKCLQSLKEMYQDLRNKGVFCASEAEFQGYNVLLSLNKGDILREVQ
QFHPAVRNSSEVKFAVQAFAALNSNNFVRFFKLVSASLYNACLHLHCYFSQIRKDALRALNFAYTVSTQSTIFP
LDGVVRMLLFRDCEEATDFLTCHGLTVSDGCVELNRSFALEPEGLSKTRKSVFITRKLTVSVGEIVNGGPLPPVP
RHTPVCFSNQNKYIGESLAAELPVSTQRPGS DTVGGGRGEECGVEPDAPLSSLPQSLPAPAPSPVPLPPVLALT
PSVAPSLFQLSVQPEPPPEPVPMYSDEDLAQVVDLIEALQORDCEEVGSAGAAAYAAAALGVSNAMEDLLTAA
TTGILRHIAAEVSKERERREQERQRAEEERLKQERELVLSELSQGLAVELMERVMMEFVRETCSQELKNAVETD
QVRVARCCEDVCAHLVDLFLVEEIFQTAKETLQELQCFCKYLQRWREAVTARKKLRRQMRAPPAAPCCVDVSDR
LRALAPSAECPIAEENLARGLLDLGHAGRLGISCTRLRRLRNKTAHQMKVQHFYQQLLSDVAWASLDLPSLVAEH
LPGRQEHVFWKLVLVLPDVEEQSPESCGRILANWLKVKFMGDEGSVDDTSSDAGGIQTLSLFNSLSKGDQMISV
NVCIKVAHGALSDGAIDAVETQKDLLGASGLMLLLPCKMKSEDMAEEDVYWL SALLQLKQLLQAKPFQPALPLVV
LVPSPGGDAVEKEVEDGLMLQDLVSAKLISDYTVTEIPDTINDLQGSTKVLQAVQWLVSCHPHSLDLCCQTLIQY
VEDGIGHEFSGRFFHRRRRLGGLASQEPGAIIELFNSVLQFLASVVSSEQLCDLSWPVTEFAEAGGSRLPHL
HWNAPHLAWLKQAVLGFQLPQMDLPPLGAPWLPVCSMVVQYASQIPSSRQTQPVLSQVENLLHRTYCRWKS
PSPVHGAGPSVMEIPWDDLIALCINHKL RDWTPRLPVTSEALSEDGQICVYFFKNDLKKYDVPLSWEQARLQ
KELQLREGRLAIKPFHPSANNFPIPLLHMRNWK RSTEC AQEGRIPSTEDLMRGASAEELLAQCLSSSLLLEKEE
NKR FEDQLQQLSEDSGAFTDLTSLPLYLPQTLVLSHTIEFVMKTSVTTSPQSDMMREQLQLSEATGTCLGERL
KHLERLIRSSREEEVASELHLSALLDMVDI

6430/6881
FIGURE 5935

TGCCGCCCAGGACCCGCGAGAGACGACGCCTGCAGCAAGGAGACCAGGAAGGGGTGAGACAAGGAAGAGGATG
TCTGAGCTGGAGAAGGCCATGGTGGCCCTCATCGACGTTTTCCACCAATATTCTGGAAGGGAGGGAGACAAGCAC
AAGCTGAAGAAATCCGAACCTCAAGGAGCTCATCAACAATGAGCTTTCCCATTCTTAGAGGAAATCAAAGAGCAG
GAGGTTGTGGACAAAGTCATGGAACACTGGACAATGATGGAGACGGCGAATGTGACTTCCAGGAATTCATGGCC
TTTGTGGCCATGGTTACTACTGCCTGCCACGAGTTCTTTGAACATGAGTGAGATTAGAAAGCAGCCAAACCTTTC
CTGTAAACAGAGACGGTCATGCAAGAAAGCAGACAGCAAGGGCTTGCAGCCTAGTAGGAGCTGAGCTTTCCAGCCG
TGTTGTAGCTAATTAGGAAGCTTGATTTGCTTTGTGATTGAAAAATTGAAAACCTCTTTCCAAAGGCTGTTTTAA
CGGCCTGCATCATTCTTTCTGCTATATTAGGCCTGTGTGTAAGCTGACTGGCCCCAGGGACTCTTGTTAACAGTA
ACTTAGGAGTCAGGTCTCAGTGATAAAGCGTGCACCGTGCAGCCCGCCATGGCCGTGTAGACCCTAACCCGGAGG
GAACCCTGACTACAGAAATTACCCCGGGGCACCCTTAAACTTCCACTACCTTTAAAAAACAAAGCCTTATCCAG
CATTATTTGAAAACACTGCTGTTCTTTAAATGCGTTTCTCATCCATGCAGATAACAGCTGGTTGGCCGGTGTGGC
CCTGCAAGGGCGTGGTGGCTTCGGCCTGCTTCCCGGGATGCGCCTGATCACCAGGTGAACGCTCAGCGCTGGCAG
CGTCCTGGAAAAAGCAACTCCATCAGAACTCGCAATCCGAGCCAGCTCTGGGGGCTCCAGCGTGGCCTCCGTGAC
CCATGCGATTCAAGTCGCGGCTGCAGGATCCTTGCTTCCAACGTGCCCTCCAGCACATGCGGCTTCCGAGGGCACT
ACCGGGGGCTCTGAGCCACCGCGAGGGCCTGCGTTCAATAAAAAAG

6431/6881
FIGURE 5936

MSELEKAMVALIDVFHQYSGREGDKHKLKKSELKELINNELSHFLEEIKEQEVVDKVMETLDNDGDGECDFQEFM
AFVAMVTTACHEFFEHE

6432/6881
FIGURE 5937

CGGCGACGGCCGGATGGCTGCGTGGGGCTGTGTGGCTGCGCTCGGCGCGGCGCGTGGGCTTTGCTGGCGGGCGGC
GCGCGCGGCTGCGGGGCTCCAGGGCCGCCCCGCCCGCAGGTGCTATGCTGTGGGCCCCGCTCAGAGCCCACCCAC
CTTTGGGTTCCTGTTGGACATCGATGGAGTGCTTGTGCGGGGCCACAGAGTGATCCCTGCTGCTCTGAAAGCCTT
CCGAAGGCTGGTGAACCTCCAGGGGCGAGCTGCGGGTGCCGTGGTTTTTGTACAAATGCTGGGAACATCTTACA
ACACAGCAAAGCCCAGGAGCTGTACGCCCTGCTGGGGTGCGAGGTGGATGCAGACCAAGTTATCCTCTCTCACAG
CCCCATGAAGCTCTTCTCCGAGTACCATGAGAAGCGGATGCTGGTGTCTGGACAGGGGCCCGTGATGGAAAATGC
CCAGGGACTGGGCTTCCGAAATGTCGTCACCGTGGATGAGCTGCGGATGGCCTTTCCTCTGCTTGACATGGTGA
CCTGGAGCGGCGGCTAAAGACCACGCCCCCTCCCGAGGAATGACTTCCCCCGCATTGAAGGGGTGCTCCTCCTAGG
GGAGCCGCTCCGCTGGGAGACCAGCCTGCAGCTGATCATGGATGTCTCCTCAGCAATGGGAGCCCTGGGGCTGG
CCTGGCAACACCCCCCTACCCCCACCTCCCGTCTAGCCAGCAACATGGATCTCCTGTGGATGGCTGAAGCCAA
GATGCCCAGGTTTGGACATGGCACCTTCTGCTGTGCCTGGAAACCATTTACCAGAAAGTGACGGGCAAGGAGCT
GAGATACGAGGGCCTGATGGGCAAACCCAGCATCCTCACTTACCAGTATGCCGAGGACCTGATCAGGCGACAGGC
GGAGAGGCGGGGCTGGGCCGCCCCCATCCGGAAGCTCTATGCTGTGGGTGATAACCTATGCTGACGTATACGG
CGCCAACCTGTTCCACCAGTACCTGCAGAAGGCAACGCATGATGGGGCGCCAGAACTAGGGGCCGGGGGCACACG
GCAGCAACAGCCCTCAGCAAGCCAGAGCTGCATCTCCATCCTGGTGTGTACAGGCGTCTACAATCCCAGGAACCC
ACAGTCCACGGAGCCTGTCCTTGGAGGAGGGGAGCCTCCATTCCACGGGCACCGAGACTTATGCTTCAGTCCAGG
GCTCATGGAGGCCTCCCACGTGGTGAATGACGTGAATGAGGCTGTGCAGCTGGTCTTCCGCAAGGAGGGCTGGGC
TTTGGAGTGAAGGCGAGTGCGGTGGAGGTGAGGGGTGAGCCTGGACCTGTGGGCGAGTCCCATTGGCTGGGCTCT
GGCCTGATCACTGGGCTCAGGTGAGGGCTTGGTTCCCTTGCCACCCCTTCTTGCTGCCCCATGAGTGTGGCATTAC
TGGTCACTTGAAGAAGACAGTGACTCTTTTTCCCTGCTGGGTAGCATTTTGTATGGAACGGTTGGAATTTTCTG
GGCCAGTTCCCACGTGCCCTTTCGTGGCAGTCTAACCTCAGGCCATTCTCTTCCCCTGTGTGCCTCAGTGTCTT
CTCATTTTCACTAGGGACTTCTGAAATGGGGGAGGCGAGTGTGGAATACTGTGGATGTCTGTGCAGAGCCTTTGCCG
GCACTGAAGGCATGCAGCCTGTCGGCAGAGTGTCTTAACACCAGATGCTACTTTTTTACTGTATTGTAGTTTATTG
CCCGGAGATGTGGGGCTTTTTTTTTTAAATAAAATAATCATAATAAATGTTTCATGATGCTGACTCTTGTGA

6433/6881
FIGURE 5938

MAAWGCVAALGAARGLCWRAARAAAGLQGRPARRCYAVGPAQSPPTFGFLLDIDGVLVRGHRVIPAALKAFRRLV
NSQGQLRVPVVFVTNAGNILQHASKAQELSALLGCEVDADQVILSHSPMKLFSEYHEKRMLVSGQGPVMENAQGLG
FRNVVTVDELRFMAFPLLDMDLERRLKTTPLPRNDFPRIEGVLLLGEFVRWETSLQLIMDVLLSNGSPGAGLATP
PYPHLPVLASNMDLLWMAEAKMPRFGHGTFLLCLETIYQKVTGKELRYEGLMGKPSILTYQYAEDLIRRQAERRG
WAAPIRKLYAVGDNPMMSDVYGANLFHQYLQKATHDGAPELGAGGTRQQQPSASQSCISILVCTGVYNPRNPQSTE
PVLGGGEPPFHGHRDLCFSPGLMEASHVVNDVNEAVQLVFRKEGWALE

6434/6881
FIGURE 5939

GTGCACGTGCGCACGGCGACGGCCGGATGGCTGCGTGGGGCTGTGTGGCTGCGCTCGGCGCGGCGCGTGGGCTTT
GCTGGCGGGCGGCGCGCGCGGCTGCGGGGCTCCAGGGCCGCCCCGCGCAGGTGCTATGCTGTGGGCCCCGCTC
AGAGCCCACCCACCTTTGGGTTCCTGTTGGACATCAATGGAGTGCTTGTGCGGGGCCACAGAGTGATCCCTGCTG
CTCTGAAAGCCTTCCGAAGGCTGGTGAACCTCCAGGGGCAGCTGCGGGTGCCCGTGGTTTTTTGTTACAAATGCTG
GGAACATCTTACAACACAGCAAAGCCCAGGAGCTGTGAGCCCTGCTGGGGTGCGAGGTGGATGCAGACCAAGTTA
TCCTCTCTCACAGCCCCATGAAGCTCTTCTCCGAGTACCATGAGAAGCGGATGCTGGTGTCTGGACAGGGGCCCCG
TGATGGAAAATGCCCAGGGACTGGGCTTCCGAAATGTGCTACCGTGATGAGCTGCGGATGGCCTTTTCTCTGCTG
TTGACATGGTGGACCTGGAGCGGCGGCTAAAGACCACGCCCCCTCCCGAGGAATGACTTCCCCCGCATTGAAGGGG
TGCTCCTCCTAGGGGAGCCGGTCCGCTGGGAGACCAGCCTGCAGCTGATCATGGATGTCCTCCTCAGCAATGGGA
GCCCTGGGGCTGGCCTGGCAACACCCCCCTACCCCCACCTCCCCGTCCTAGCCAGCAACATGGATCTCCTGTGGA
TGGCTGAAGCCAAGATGCCCAGGTTTGGACATGGCACCTTTCTGCTGTGCCTGGAAACCATTACCAGAAAGTGA
CGGGCAAGGAGCTGAGATACGAGGGCCTGATGGGCAAACCCAGCATCCTCACTTACCAGTATGCCGAGGACCTGA
TCAGGCGACAGGCGGAGAGGCGGGGCTGGGCCGCCCCCATCCGGAAGCTCTATGCTGTGGGTGATAACCCTATGT
CTGACGTATACGGCGCCAACCTGTTCCACCAGTACCTGCAGAAGGCAACGCATGATGGGGCGCCAGAACTAGGGG
CCGGGGGCACACGGCAGCAACAGCCCTCAGCAAGCCAGAGCTGCATCTCCATCCTGGTGTGTACAGGCGTCTACA
ATCCCAGGAACCCACAGTCCACGGAGCCTGTCCTTGGAGGAGGGGAGCCTCCATTCCAGGGCACCGAGACTTAT
GCTTCAGTCCAGGGCTCATGGAGGCCTCCACGTGGTGAATGACGTGAATGAGGCTGTGCAGCTGGTCTTCCGCA
AGGAGGGCTGGGCTTTGGAGTGAGGGCAGTGCGGTGGAGGTGAGGGGGTGAGCCTGGACCTGTGGGCGAGTCCCA
TTGGCTGGGCTCTGGCCTGATCACTGGGCTCAGGTCAGGGCTTGGTTCCCTTGCCACCCTTCTTGCTGCCCCATG
AGTGTGGCATTACTGGTCACTTGGAAGAAGACAGTGACTCTTTTTCCCTGCTGGGTAGCATTTTGTATGGAACGG
TTGGAATTTTCTGGGCCCAGTTCCACGTGCCTTTCGTGGCAGTCTAACCTCAGGCCATTCTCTTCCCCTGTGTG
CCTCAGTGTCTTCTCATTTTCAGTAGGGACTTCTGAAATGGGGGAGGCAGTGTGGAATACTGTGGATGTCTGTGC
AGAGCCTTTGCCGGCACTGAAGGCATGCAGCCTGTGCGCAGAGTGTCTTAACACCAGATGCTACTTTTTACTGTA
TTGTAGTTTATTGCCCGGAGATGTGGGGCTTTTTTTTTAAATAAAATAATCATAATAAATGTTTCATGATGCTGAA
AAAAAAAAAAAAAAAA

6435/6881
FIGURE 5940

MYAWFFLPFSFSQSPPTFGFLLDIDGVLVRGHRVIPAAALKAFRRLVNSQGQLRVPVVFVTNAGNILQHKAQELSA
LLGCEVDADQVILSHSPMKLFSEYHEKRMLVSGQGPVMENAQGLGFRNVVTVDLRFMAFPLLDMVDLERRLKTTTP
LPRNDFPRIEGVLLLGEVVRWETSLQLIMDVLLSNGSPGAGLATPPYPHLPVLASNMDLLWMAEAKMPRFGHGT
LLCLETIYQKVTGKELRYEGLMGKPSILTYQYAEDLIRRQAERRGWAAPIRKLYAVGDNPMSDVYGANLFHQYLQ
KATHDGAPELGAGGTRQQQPSASQSCISILVCTGVYNPRNPQSTEPVLGGGEPPFHGHRDLCFSPGLMEASHVVN
DVNEAVQLVFRKEGWALE

6436/6881
FIGURE 5941

AGGAACCGGAACCCGCGGTTATAAAGTAAAGGAACCCGAGATCTGCGCAGGGGTTCCTTTGCCGATTTCTCTCA
CCTCACCTTTCAAACCTAAACTCGAGCCTACTGTTACCCGGCCTAGCATTGCTCTCGCCATGGCTCTCAGCGATG
CTGACGTGCAAAAGCAGATAAAGCATATGATGGCTTTCATTGAACAAGAAGCCAATGAGAAAGCAGAAGAAATAG
ATGCAAAGGCAGAAGAAGAGTTCAACATAGAGAAAGGTCGGCTTGTCGCAAACCCAAAGACTAAAGATTATGGAAT
ATTATGAGAAGAAAAGAGAAACAGATTGAGCAGCAGAAGAAAATTCAGATGTCCAATTTGATGAATCAAGCGAGAC
TCAAAGTCCTCAGAGCAAGAGATGACCTTATCACAGACCTACTAAATGAAGCAAAACAGAGACTCAGCAAGGTGG
TAAAGATACAACCAGGTACCAAGTGCTGCTGGATGGACTGGTTCTCCAGGGTTTGTACCAGTTGCTGGAGCCCC
GAATGATTGTTTCGTTGCAGGAAACAAGATTTCCCTCTGGTAAAGGCTGCAGTGCAGAAGGCAATTCCTATGTACA
AAATTGCCACCAAAAACGATGTTGATGTCCAAATTGACCAGGAGTCCTACCTGCCTGAAGACATAGCTGGTGGAG
TTGAGATCTATAATGGAGATCGTAAATAAAGGTTTCCAACACCCTGGAAAAGCCGGCTGGATCTCATAGCCCAGC
AGATGATGCCAGAAGTCCGGGGAGCCTTGTTTGGTGCAAATGCCAACAGGAAGTTTTTGGACTAAGCCTTCAGGA
GGTGGAGCTCGTCGTCAGCTCTCCTGCTGTGATGTGGAAGCTTCTGATATTTGAAGAAACACGAATGTCTCTGTA
GCTTCCTCTTCACTGCCCCAGTATTGCTCTGTATTTATCAGCGATGCCCCCTCTGTCACTCATGCCTTGCCTAATT
GTTCAATGGTGGAAGCTTCATGTAATATGATCAGGACCCACCTCCAGTTCTTCTGAAAGTGTGACAGTGTCC
AGCCGGTTCTGCAGCACTAGGGGAGGGGGCAGATGGTGGTTGCATGGGCTTCCTGGGTCTCCACTCTCCGTCTGG
CCTAAAGGTGATGATTTTGGTGTGTTGGCCCTGCAGTCCCCACTCTTGAGGCTTAAGGCGCATGTGGCACACCACT
CCTTCCAGCAGTAGTCGCTTTACTGTTACCTGTTTAGGCCTAGAAGTTTTCCCTCATCTGTAAATGTGATTTAAA
ATCTAAGCCATGAATATGCTTTATTTATTAAAGAGTTATGCGGATTTAATGTGA

6437/6881
FIGURE 5942

MALSDADVQKQIKHMMAFIEQEANEKAEEDAKAEFEFNIEKGRVQTQRLKIMEYYEKKEKQIEQQKKIQMSNL
MNQARLKVLRRDDLTDLLNEAKQRLSKVVKDTTRYQVLLDGLVLQGLYQLLEPRMIVRCRKQDFPLVKAQVQK
AIPMYKIATKNDVDVQIDQESYLPEDIAGGVEIYNGDRKIKVSNLTLESRLDLIAQQMMPEVRGALFGANANRKFL
D

6438/6881
FIGURE 5943A

GAAGAGTCCAGTGAAGCCGGGAACCAGAGGCTCCAGCAGGTCATGCACGCGGCGGATCCTCTGGAGATCCAGGCT
GACGTGCACTGGACTCATATCCGTGAGAGAGAGGAGGAAGAGAGGATGGCGCCGGCCTCTGAGTCCTCTGCTTCC
GGAGCCCCATTGGATGAGAATGACCTAGAGGAAGATGTGGACTCAGAACCAGCCGAGATAGAAGGGGAGGCAGCA
GAGGATGGGGACCCAGGGGACACTGGTGCTGAGCTGGATGATGATCAGCACTGGTCTGACAGCCCGTCGGATGCT
GACAGAGAGCTGCGTTTGCCGTGCCAGCTGAGGGGGAAGCAGAGCTGGAGCTGAGGGTGTGGAAGATGAGGAG
AAGCTGCCCCGCTCACCGAAGCACCAAGAGAGAGGTCCCTCCCAAGCCACCAGCCCCATCCGGTCTCCCCAGGAA
TCAGCTCTTCTGTTTATTCCAGTCCACAGCCCTCAACAGAGGGGGCCCCAACTCCCACCTGTCCCTGCCGCCACC
CAGGAGAAATCACCTGAGGAGCGCCTTTTCCCTGAGCCTTTGCTCCCCAAAGAGAAGCCCCAAAGCTGATGCCCCC
TCGGATCTGAAAGCTGTGCACTCTCCCATCCGATCACAGCCAGTGACCCTGCCAGAAGCTAGGACTCCTGTCTCA
CCAGGGAGCCCGCAGCCCCAGCCACCCGTGGCGGCCTCCACGCCCCCACCAGCCCACTCCCCATCTGCTCCAG
CCCCAGCCTTCCACCGAGGCCACTGTCCCATCCCTACCCAGTCCCCCATACTGCTTCCAGCCTGCCCCGGCCAAA
ACATCCACCCCACTGGCCCCCTCTCCCTGTCCAAAGCCAAAGTGACACCAAGGACAGACTGGGCAGCCCCCTTGCT
GTGGATGAGGCCCTCAGACGGAGCGACCTGGTGGAGGAGTTCTGGATGAAGAGTGCGGAGATCCGCCGAGCCTC
GGGCTCACACCTGTGGACCGCAGCAAGGGGCCCCGAGCCAGCTTCCCCACGCCTGCCTTCAGGCCAGTGTCCCTC
AAATCCTATTCCGTTGAAAAGTCCCCCAGGATGAGGGACTCCACCTTCTCAAGCCTCTGTCCATCCCCAAAAGG
CTGGGCCTGCCAAAGCCGGAAGGCGAGCCGTTGTCCCTGCCAACCCCCCGGTCCCCGTCCGACAGAGAGCTACGC
AGCGCCCAGGAGGAGCGCAGGGAGCTGTCCAGCAGCTCTGGCCTGGGCCTGCACGGGAGCTCCTCCAACATGAAG
ACACTGGGCAGCCAGAGCTTCAACACCTCGGACTCCGCCATGCTCACGCCCCCTCCAGCCCGCCCCCACCGCCA
CCCCGGGGCAGGAGCCCGCCACCTTGCGGAGGAAGCTCAGGGAGGCCGAGCCCAATGCCTCGGTGGTCCCGCCG
CCCTTGCCCGCCACCTGGATGCGGCCCCCCCCGGGAGCCTGCTCAGCCCCCAGAGAGGAGGTGCGGAAGTCGTTT
GTGGAGAGCGTGGAGGAGATTCCCTTTGCTGATGATGTGGAGGACACCTATGACGACAAGACTGAGGACTCAAGC
CTGCAGGAGAAATTCTTACGCCCCCTCCTGCTGGCCGCGCCCCGAGAAGCCTCGCCACCCGCCCCCTGGCCAAG
GAGAACGGGAGGCTGCCTGCTCTGGAGGGGACGCTGCAGCCACAGAAGAGGGGGCTGCCCTTGGTGTCCGCGGAA
GCCAAGGAGTTGGCCGAGGAGCGCATGCGAGCCAGGGAGAAGTCCGTGAAGAGCCAGGCGCTGCGGGACGCCATG
GCCAGGCAGCTGAGCAGGATGCAGCAGATGGAGCTGGCCTCAGGCGCCCCCAGGCCCCGAAGGCGTCTCAGCA
CCCTCCCAGGGCAAGGAGCGCCGGCCTGACTCCCCACACGCCCCACTCTCAGGGGCTCCGAGGAGCCACCCTG
AAGCATGAAGCCACCAGCGAGGAGGTCTCTCCCCGCGCTCGGACTCAGGGGGCCAGATGGCTCTTTCACTTCA
TCCGAGGGCTCCAGTGGGAAGAGCAAGAAGAGGTGCTCACTCTTCTCCCCCGCAGAAACAAGAAGGAGAAGAAG
TCCAAAGGCGAGGGCCGGCCCCCGGAGAAGCCCAGCTCCAACCTCCTAGAAGAAGCCGCGCCAAACCCAAGTCC
CTGTGGAAGTCCGTCTTCTCCGGGTACAAGAAGGACAAGAAGAAGAGGCCGACGACAAGTCTGCCCCAGCACC
CCCTCCAGCGGGGCCACGGTGGACTCTGGAAGCACAGGGTGCTTCCCGTCTGTAAGGGCAGAGCTGCAGCTCCGG
CGCCAGCTGAGCTTCTCCGAGGACTCAGACCTCTCCAGCGACGATGTCTTGAGAAGTCTCACAGAAGTCCCGG
CGAGAGCCAAGAACCTACACGGAGGAGGAAGTGAATGCCAAGCTGACCCGGCGTGTGCAAAAGGCAGCTCGGAGA
CAGGCCAAGCAGGAGGAGCTTAAGCGGCTGCATCGAGCCAGATCATCCAGCGGCAGCTGCAGCAGGTGGAGGAG
AGGCAGCGGCGGCTGGAGGAAAGGGGCGTGGCTGTGGAGAAGGCGCTCCGGGGCGAAGCAGGCATGGGCAAGAAG
GACGACCCCAAGCTGATGCAGGAGTGGTTCAAGCTAGTGCAGGAGAAGAACGCCATGGTGCCTACGAGTCCGGAG
CTGATGATCTTTGCCCGGGAGCTGGAGCTGGAAAGACCGGCAGAGTGCAGCAGGAGCTCCGGGAACGCATG
GCAGTGGAAGATCACCTTAAGACTGAGGAGGAGCTGTGAGAAGAGAAGCAGATTCTCAATGAGATGCTGGAGGTG
GTGGAGCAGAGAGACTCACTGGTGGCGCTGCTGGAGGAGCAGCGGCTCCGGGAGAGAGAGGAGGACAAGGACCTG
GAGGCTGCCATGCTGTCCAAGGGCTTACGCCCTTAAGTGGTCCTGAGCTCCACCCAACGCTCCATTTTCTGTTGG
CATCCGCCTGGCCAGGCAGTGGCATCCAAACCACCCGGAGCCGCGATCTGAGGAGGCCTGGCACCTCCTTGGAGT
TTACGCTCAGATGCCCCTGTGCTGCTTGGAAAGTGGTTCGAGTCCCGCTGCAGTGGGGAGCCCCAGGTGACAGTG
GTTATCTGAGACGGCTCCACCTCCTGGGAGGAGGCCACCTGGACCTCCCACTCAGAGGAGCAGCACGGCGTGTA
TGGCATGACGCAGGGGACCACCCCGCGCTCCCTGAGGATGTGCTGGCTGTGCCCCTTTTTCCACTGGCACAT
TTGGTAAGAGAGGGAAGCTGCTCCCCGTGAGAACCACAGTGCGCCGTGCGAGGGGCACTGTCTTCTTCATGCTCC
CTGGAGCACCACCAAGAAGAACGTAAACAATACCCACGAAAGCAGGGTCAGGGGTGAGGTGCGATCGAGACCCA
GGATGGGGGCGTCCAGTCATGCCCCACCCAGCATCACAGGAGACATGGAGGTGCGGGCAGGCTCCTGAATTATTA
TGCAAATTAGGAGGACGCAGGAGGGGTCTGCCCTCCAGCCGAACACCACACACTGGACCCTAAGTGGCCAAATGC

6439/6881
FIGURE 5943B

CTGGGCCGCTTGCTGGCTGTGGCCTGAGGCTTGTGGGTTGCTGCATTTTGCTTGTAGTTCACAACCATTGACA
CTGGAAAATGCTGACTTTGGGGGACAGGATGAGGCCCTACATTCTAAGCCCCAGTTGGCAGACAGGCATTGTCC
CTGTTCCACATTTATGTCGGGACAGGAGATGACCTTTTCTCCGTGTTTTCTGTGTTTGCACGTTGAAATGAA
GCTGACAACCTGGCAAGACGCTCAGCCGCTTCAAACCCTTTTGTCAATTAACCTATTTTAACTTGAAGAG
AAGTAACCTTCGTTTGTGTATCTTTACTAGAGGAAGTATCACCTGCGCCCGGTGCGGGAGCCACAGCGGCATCT
GGTGCGTCTACGCGACCTGGTCCGGGGCTGCCCCGGTGTCTCTCACGTGCATCTATTTATTAGCCTTTCTCTTCG
TATCACTGGCCTGGCTGGCATCAGGGAGCTGCCCAGAACCCTGTGTGGGTCTCTCACAGCTTTCTGTCCCT
CCTCCACCCGGTGCCTGCCTCACCCTGGCGCTAGACCATCTGGACCACTCATGTGATGAGGGTGCATTTCCGTTT
TGTTTTGGGCCAGGCCAACAGCAGAGCTGCCACTCTCACCCTCCAGTGAGAATTCCGGCTCTGCAGAACTCGCC
CTTGCTCAGTTTGGGGGCCAGGGCATCACCTTCTCCGCACATATGTTAAAGAAGGTTTCAGGATGGGCCCTCA
TCCACACAGGCCAAGAGGGTGCAGGTGGGACCTGGAATCATGTGGCTGGTGAGAATTCCTCTCCAGCCTA
AGATTACCCAGACGGAACGCGAGTGTGTCAGTGGATGTGGGATGCAGGCTGGTGCCTCTCAAGCAGATCAGC
GACTCCCGCCCTTCTTCCGAAGGCGACGGGCACCTGCCTTGTGCCGATCTTCATGGGGACATAAAGGGCGAGC
CCCGAATCACTAGCTCCTATAGCCAACTGTTCTTTCTCACGGTTCCGCACCAGCCTGGCTGTGTACAGCTCAT
CAAGCCACTGAGCTAATCGGGGTGGGGTGTCTGTCCATCAAAGCAGTCAGCACATAGCCAGCGAGGAGCCATCC
GGACCAGACCCGCTGCCAGGGGCGCTCCAGCCGCTGCCGCTCCGTGGGCTGGGGCCAGCTGGGAGCAGAGGC
CTGGCCCTCCAAGGCTCCCGCAGTGGAGCAGGCTGAGTGGCTGTGCTGACCTTGGGCTTTCCATGGGAACCAC
ACTGTGCTTCAACTTGAACATTATCCAGCTGCAAAGGAGCAAAGAACCCTGTGTCATCCTTGTCTGTCCAGAAG
CTGCCATCTCTCTCCCATGCACATCCGGGAGATAACGCCGCTAGTGGCCGCCACAGCGCTGATTCTCCACCTGTT
CTCACGTGAGGCAAAGGTCTCCTTTTCTTTTCTTTTACTTAAAAAAGGGGAGAGGAGGTTTCTAGATTCCATC
TTCAAACCCAGTCGTCCCATAAAAATTGGACGTGGGAAAAGACCTTCACTGCCTGCGTGGCCTTTCCAGACCTC
TCCTCGAATGCCACAAAACCGGTCCAGCCCCGCGCAGAGCCGCTTCCGCCCTTGTAGCTCCTGCTGGCCCCACAA
CAGGGAAACAGTTTGCAGAGTGGCTTGAAGGAGTGTGGCTAGGGATCTGCTGTAAGTGGCCAGACGTAGCAGG
AGAGCCAGTGTACCTTCTGGTCTGGTCAGCCTTAACACTGTGGCATCCTCCACAGCACACAGGCAGCCTGC
AGTCTGGAAGGTGGACCCGAGCCTTTGCAGAGAGGCGCCGAGAGCCGCGAGGCCTGCGCCCCAGCCTTCTGCTCC
CGACTGTGAGGACACCCAGTTCTAGTAGAGCACTTTTTTAAAGCTCCCATTTTGTAACTAGTTTGCAGTTG
ACTTGAGTACTCTGGTGACTTCTGCGTCAAGCGTTCTCAAGCTGTGAGAATGTGCGCAGCTCCAGGCAGGTTTT
CTCTCGGAGAGTTAAGTCTTCCCTTGAAGGCAGGGAAGCAGGATGGATACACATATATCACACGCATAAAACACC
AGGTGCGGGAGCAGCCCAGACTCAAGGCTGACTAACTGGAGGCTGAATACCGTGGAGGTCCACATGCAGCTTCC
CTGGAGGGCAGGCCGAGGCGCTCCCGCCCTGGGCTTGAGGATGCTGCACCCGTTGGGCTTCCAGGCCTGCCCA
GATGATGCCTTACGGCCTCTGTCCCTGGCGGCCATCTCAGGCCGATTTTGACCAGCAATGATAGACTCTTCTTA
ACCCTTTCAAATAAAATTTTTCAGTGGGACAGAAAGGAGAGTTAAAAAACATTTTTTTAAAGGTGGTAACATCTG
ACCCACAAAGGAATGGGTCTGTTTTATGCAAATAAAAGTTTTTCAAAT

6440/6881
FIGURE 5944

MHAADPLEIQADVHWTHIREREEEEERMAPASESSASGAPLDENDLEEDVDSEPAEIEGEAAEDGDPGDTGAELDD
DQHWSDSPSDADRELRLPCPAEGEAELELRVSEDEEKLPASEPKHQERGFSQATSPIRSPQESALLFIPVHSPSTE
GPQLPPVPAATQEKSPPEERLFPEPLLPKEKPKADAPSDLKAVHSPIRSQPVTLPPEARTPVSPGSPQPQPPVAAST
PPSPPLPICSQPQPSTEATVPSPQTQSPIRFQPAPAKTSTPLAPLPVQSQSDTKDRLGSPPLAVDEALRRSDLVEEF
WMKSAEIRRSGLGLTPVDRSKGPEPSFPTPAFRPVSLKSYSVEKSPQDEGLHLLKPLSIPKRLGLPKPEGEPLSLP
TPRSPSDRELRSQAEEERELSSSSGLGLHGSSSNMKTLSQSFNTSDSAMLTPPSSPPPPPPPGEEPATLRRKLR
EAEPNASVVPPLPATWMRPPREPAQPPREEVRKSFVESVEEIPFADDVEDTYDDKTEDSSLQEKFFTPPSCWPR
PEKPRHPPLAKENGRPLPALEGTLPQKRGPLVSAEAKELAEERMAREKSVKSQALRDAMARQLSRMQQMELAS
GAPPRKASSAPSQGKERPDSPTRPTLRGSEPTLKHEATSEEVLSPPSDSGGPDGSFTSSEGSSGKSKKRSSL
FSPRRNKKEKSKGEGRPPEKPSSNLLEEAAKPKSLWKSVEFSGYKKDKKKKADDKSCPSTPSSGATVDSGKHRV
LPVVRAELQLRRQLSFSESDLSDDVLEKSSQKSRREPRITYTEEELNAKLTRRVQKAARRQAKQEELKRLHRAQ
IIQRQLQQVEERQRRLEERGVAVEKALRGEAGMGKKDDPKLMQEWFKLVQEKAMVRYESELMIFARELELEDRO
SRLQQELRERMAVEDHLKTEEELSEEKQILNEMLEVVEQRDSLVALLEEQLREREREEDKDLEAAMLSKGFSLNWS

6441/6881
FIGURE 5945

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGAGGAGCAGGACGCCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGTATTCTTGACTTAAACAAGGTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACTTTCTGACTTATCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTGTGAGAAGTGAGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTGAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCGTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTTCCA
CATTGAAAACAACCTCCTTTTATAATTATTCACGTCTTTTGTGAGTGAATAGACATCTTGCCCTCCTGAAGTAG
CTTCATCACAGAGTGTGATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCCTCCCTT
CAAGGAGTATGTGATATGTCACAAAAGAAATTGCCTTACACTGGTTCATGTTTGAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTTGTACAGCCAAAATAATGTATATATGGAAAATGACAGACAAATCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTCCAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAAGTATTTAATATGGTTTTAGTGCTAAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCAGTG
GCTTTGGGGGCAAGGATAGAAATGCCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGAAACTCCTTTTCAAGTTTTTGAAGTAGATTTTGTAAATGTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTCACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTCATAATCACTGTTACATCCAGTGCCCTCACACTATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAA

6442/6881
FIGURE 5946

GGGGCCTGGCTCGGACCACGCGGGGCGGGACCTGGAGCTGACGCGGCCGCCCGCCCTGGGACCATAACCGGCC
GCCGCCGCCACCGCGGACCGAGCGCGGAGTTCTGGAGTCTCGGACCCGAAGCCGCCACAGGGCGCCCCGCCTCCC
GCCCGCCATGCCCGCGCCCCGCGCCCCGCGCGCTCTGGCGGCCGCCCGCCCGCTCCGGGAAGGCCAAGCTGAC
GCACCCGGGGAAGGCGATCCTGGCAGGCGGCCTGGCGGGTGGCATCGAGATCTGCATCACCTTCCCCACCGAGTA
CGTGAAGACGCAGCTGCAGCTGGACGAGCGCTCGCACCCGCCGCGGTACCGGGGCATCGGGGACTGCGTGCGGCA
GACGGTTCGACGCCATGGCGTCTGGGCCTGTACCGCGGCCCTTAGCTCCCTGCTCTACGGTTCCATCCCCAAGGC
GGCCGTACAGTTTGGAAATGTTGAGTTCTCAGCAACCACATGCGGGATGCCAGGGACGGCTGGACAGCACGCG
TGGGCTGCTGTGCGGCCTGGGCGCTGGCGTGGCCGAGGCCGTGGTGGTCTGTGCCCCATGGAGACCATCAAGGT
GAAGTTCATCCACGACCAGACCTCCCCAAACCCCAAGTACAGAGGATTCTTCCACGGGGTTAGGGAGATTGTGCG
GGAACAAGGGCTGAAGGGGACGTACCAGGGCCTCACAGCCACTGTCTGAAGCAGGGCTCGAACCAGGCCATCCG
CTTCTTCGTATGACCTCCCTGCGCAACTGGTACCGAGGGGACAACCCCAACAAGCCCATGAACCTCTGATCAC
TGGGGTCTTCGAGCTATTGACAGGCGCAGCCAGTGTCTTTGGAACACTCCTCTGGATGTGATTAAAGACCCGGAT
GCAGGGCCTGGAGGCGCACAAATACCGGAACACGTGGGACTGCGGCTTGACAGATCCTGAAGAAGGAGGGGCTCAA
GGCGTGAGTGGGGGAGGGGAGGGGCTATTGTCCCCACCTCAAACCTTTCCCGGCCTACCTGGCCTGCCCACTCTG
TCCCCCTCAGGCCTCTGTGCTCTCACTTCAGTATCTGGGGATTGCCCTGTGCAGGGACACTGTGCTGACCTGCC
TTCTCTCCCCGCCCCTCCTCCACCCAGATTCTACAAGGGCACTGTCCCCCGCCTGGGCCGGGTCTGCCTGGAT
GTGGCCATAGTGTTTGTATCTATGATGAAGTGGTGAAGCTGCTCAACAAAGTGTGGAAGACGGACTAAGCCTAG
AGAGGCCGCAAGGGGACCGCCCCAGGCACCGCCAGAGTGTCTGTGCTACCTTTGTCTCACGATTCCAGTGCAGTAG
TGCCAAAAGGCCCTTCCCACGTCCCTCGAGCTCTGTAGCCTGGTCTGTGCATTGTGGCTGTCAAATCCATGTGT
CCCCCTGTGGTCTGTGTGTGACACCACCACTGTGTCCAGTGTCTGGCCCAGCCATGGCTGGATGTGCATCTGG
CCTATGACCCTGTGCCTGTGTTTCATGTTCTGTGTACGTGACCCTGTGCCCCGCTCCCGGGGTGCCCGTGTGG
CCTGGGTCTCGGCCCTGTAGCCCTGGCCCGGTCCAGTCCGGTGCCTTCCACCCTGCCCTGGCCTACCACAGCT
GCCTCCGGGCCTCGGCCTGGCTTCACCGCATTCAGGGGCTGCAGCCCCCTGCTTCTCCCGCCATTGGCCTTAAC
TGGCCCTCGGGCCTCTCTCCGCCCCGACAGGGTGGCACCCACCACTCTCAGGACCACCCTGCCAAGGCAGAAT
AAACCGGATCCTGTTGC

6443/6881
FIGURE 5947

AGTAAGCCGGGCTGCCGTCTTCTCGCCATGGGCTCCGGGCCGCGCGGGGCGCTGAGCTTACTGCTCCTGCTGCTG
GCCCCGCCGAGCCGCCCGGCCGCGAGGTTGCCCGGCCGCTGTAGCTGCGCGGGGACGCTCGTGGACTGCGGGCGC
CGCGGGCTGACTTGGGGCTCGCTGCCGACCGCCTTCCCTGTCGACACAACCGAGCTGGTGCTGACCGGCAACAAC
CTGACGGCGCTGCCGCCGGGGCTGCTGGACGCGCTGCCCGCGCTGCGCACCGCACACCTGGGCGCCAACCCCTGG
CGCTGCGACTGCCGCCTTGTGCCGCTGCGCGCCTGGCTGGCCGGCCGCCCCGAGCGTGCGCCCTACCGCGACCTG
CGTTGCGTGGCGCCCCCAGCGCTGCGCGGCCGCTGCTGCCCTATCTGGCCGAGGACGAGCTGCGCGCCGCTTGC
GCTCCCGGCCCCGCTCTGCTGGGGGGCGCTGGCGGGCGAGCTTGCGCTGCTGGGCCTTGGGCTGCTGCACGCGTTG
CTGCTGGTGCTGCTGCTGTGCCGCCTGCGGAGGCTGCGGGCCCGGGCCCGCGCTCGCGCCGAGCCCGGCTGTG
CTGACCGACCCGCTGGTGGCCGAGCGAGCCGGAACCGACGAGTCCTGAGGAGAGAACCGGTGCGTCCTGAGGAGA
GAACCGGCGCTGGGCAACACGGGCCTGCAAACTCGACAGGACCCTGCCCGAGGGGCCCTCGCGCCAACCTGGACC
GGTCCCCGCCTCCTCCGCTGCCCAATCTCTCAGACCCACCCACCTGCAGGCCAGACCAGTGGGACAGAACTC
CTGCCCCACCTACCCCGAGGGAGGCGAACCCGCACTTCCAGGCTTGGGAGGACCATGGGGCACAAATGCGGTCCAG
ACCCTGCTGCGTCTCCCTTCCAAACTCTGGTGCTGAATAAACCTTCTGATCTGG

6444/6881
FIGURE 5948

MSGPRGALSLLLLLLAPPSRPAAGCPAPCSCAGTLVDCGRRGLTWASLETAFFVDTTTELVLTGNNLTALPPGLL
DALPALRTAHLGANPWRCDCRLVPLRAWLAGRPERAPYRDLRCVAPPALRGRLLEPYLAEDELRAACAPGPLCWGA
LAAQLALLGLGLLHALLLVLLLCRLRRLRARARARAAARLSLTDPLVAERAGTDES

6445/6881
FIGURE 5949

CCCAAGATGCCAAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCTGGCCCCCTGCTGTTCATGAAGAAGCAGGAG
GCTAAGAAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGCATCGGACAGGACATCCAGCCCCAA
AGAGACCTCACCCACTTTGTGAAATGGCCCCGCTATATCAGGCTGCTGGCAAACGGGACGTCCCCACCAAGAGAC
CACCTGTCTTCGAGCAGGAGTTAACATCGTCCACCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTGATTG
CAGACGACGTGGATCCCATCGAGCTGGTTGTCTTCTTGCCTGCCTTGTGTCGTAAATGGGGGTCCCTTACTGCA
TTATCAAGGGGAAGGCAAGACTGGGACGTCTAGTCCACAGGAAGACCTGCACCACTGTACCTTCACATAGGTGA
ACTCGGAAGACAAAGGCACCTTTGGCTAAGCTGATGGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGA
TCCGCCGTCCTGTTGGGCGGCAACATCCTGGGTCTTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGG
CTAAAGAACTTGCCACTAACTGGGTAAATGTACACTGTTGAGTTTTCTGTACATTAAAATAATTAAATAATA
CAAATTTTCCTTC

6446/6881
FIGURE 5950

CTGCCGTGTGCTGAGGGCCAGTCATGCAGCATCCACCTAGGCAGGCTTGAGAGTCCTTGGGAGAGTCCAGGTGA
CCTGGTTTTTAATTAAAAACGCGTCCTGTTTATTGTGGTTGGGCTCTGCCCAGAAAGGAAGGTAGGGCCTTGAAGT
GGTGATGTCCAGGTTTCTTGACAGGTAGGGTGGAGGCAACGATGGACTCTGGCATGGCCTTCCAGACAGGCAGT
GCACACAGCTCCTTTCAGAGTGGCTTTGTTGCCAGCTGCTGCAGCACCTGCTTTCAGACAGATGATGACCAAGCT
GCTTTCCTGCTGGGGGAAGGAGGCATTCCCCCTGGGTTGTTTTCTCTTCTGCCCCCACACACTGGCAGACCCG
AAGGCAGGGTGCTCAGGAGCTGCAGAGCCTGGCAGGGTTTGCTGGACATGCTCAGGGACGGGCCATGGTGCTGGC
TCTGCTTTCTAATCATGGTGTGCTGCTCCTTCACTTCCCTTGGAATATCCAGAGATTTTATTTCCTGAAGATAGGA
CATGATGGGTGCTGTGAGATGGTATTTAAAGTACCTGTCTGCAAGGAAAACCTTAAAAATAGGAAGTACTAAGGAT
AAGGTCCTATGGGATATTGGAATATTTTATAAAGCCACAATAGTTAAAGCACTTAGATGTGGACAGATGAGCAGA
GAATAGAGGACTTTGAAACGGGCCAAATAAATATGGAAATTTAGTACAGGCTAGAGGTGTTTCCAATTAACGAGT
AAAATGGATTATTAGTAAAAGCAGTTGGCCCTCTGGAATAAGTAAAGCCATGTATGTGCCTCACTCTTTATGC
CAGTACATATTCCAGATTAAAGATTTCAATGTTACAATTATGAAGTACTAGAGGAAAATATGGGTGAATTTTTT
TTTTTTTTTTTTTTTGCCTATGATTCCAGGATTTTAAAGTTTTAGATGCCAGAGTTGTGGAGGTATGGAGAAG
TGGACCTTCTCATACTGTTGGTGGGAATACACAATAATATAATTTGACCACGTAACAATTTAGGCACATGCATG
CTGTGACTACTTGCTAGGTGCATGAAGGCTCTTGCCAGGGGTGGTTCATGGTTTCGGTACCCTACATGGGGGTTTA
GAGCAGGGACTGGAGGTGGCCTTGCTCCTCCCCCTCCCGCATGAGCTGAGGGTCTTACCTGACCTTTTTTGAG
CTGTGACCAGAGTTTTTCTCATGGGGTGGTTAGAAGGGTTGAATGAGAATGATGCCCATGCAGTGCCTTGGCTG
GGGTCTGGGCCCTCTAACACCCACCTCATGGGTGTCACTGTTTTTTGAACAGCAGAACTGGAAAAGCCCAAAGAT
CCAGCAATAAAGGAGCAAGGCATAAAGCTGTTACCCTGCAGGATCAGTCAGCATGAGCCAGATTGTGCTGCAG
TAACAAAGATCTCCAACAGCGCAGCGGCTACAGTTGGCACTGCTTATTTCTTGCTTGCACTGTGGGCCACCGTG
GCTGGGGCCTGTGACACCTGTGCTGACGACAGCCTACCTGGACATATTTCTCCATGCTCACTGAGGCAGGGGAAA
GGCCACAGCAGGCCACAAGTAATGTGTGTACCCCACTTCCATTTCTGTGGCCAAAGGAAGCCACAGAGCCACAC
CTGAGTTCCATAGGACGGCAGCAGCTGATCATCCTATGGGCTGGGGTGTGCTCAGTATGGAGAAGTACAAGCAGCCA
CCCAGCGTGGGGCTGGTTGGTGTGCTGCTGAGGATGGGAGGATGGGAGGGGCTGCATCCATCCCAGGGCAACATAC
CTGTTTGTCTGCTGGGGCTGCCTGACAAAGGACCGCAGGCTAGGGGACTTAAACAACAGACATTTCTCATGATT
CTGGAGCTAGAAGCCTGAGATCAAGGTGTGGGCAGGGTTGGTTTCTCCTGAGGCCTCGCTCCTTGGCCTGCAGAT
AGCCATCTTCTTGCCGTGTCCCTGTCTGTGTCTGTGTCTTAATCTCTCATAAGCTCACTAGTCTATTGGATCAGG
GCCCACCTCATGACCTCATTTAACCCTGAATTACCTCTTTAAAGACCCTGTCTTCAAATGTAAGTACTAGGGGT
TAGGACTTGAACATAAAAAATATTGAAGGGACATAGTTCTGCCCACAGCGGTGCCGCGATAGGCTTCTCTGGTTT
TGTCTTTGCTGTTTCTTGCCAGCGCTATATTGGGCAGGCTTCTGTGGTCTCCACATGCCTGTGTGCAGAGTCCCCC
AGGCCCTGGGTTCTGGGGCCCATACTGAGGAGTGGGGATGGCCAAGCCTTGGCTGTTGAGTAGGCAGTGCCCACT
TGTGCTGTATGGGATGCTGTTTCTCACTTAAGAAATCTTTCCCTACCTGGGGGGTACAAAGGCATTATCCTGTAT
TCCCAGGTTGTAACCTTTCTGCCTTTGACATTCAACCTTGAGTCCACCTGTAAGTGTAAGTGCAGGAGGGAGG
GGTCTGCTGTATCCTTGATAGCCTGTGATGAGCAGAGCCCTCTGCCGACCGCGATGCACATGTAATATGAGCA
AGAAATAAATTTTTGATGTGCGAAGCCACTG

6447/6881
FIGURE 5951

GGCACGAGGCTCCCCTGTGCTCCCAGCATGCCTCGTGGCCGGTGCCGTGAGCAGGGCCCTCGCATTCCTCATCTGG
GCAGCCGCCAATTATGCCAACGCACATCCATGGCAGCAGATGGACAAGGCGTCTCCTGGGGTGGCATAACCCCC
CTTGTGGATCCCCTGGATTGAGCGGCCCTGCTGTGGGGACACCGTGTGTGTGCGAACGACCATGGAGCAGAAGAGC
ACAGCTAGTGGCACTTGTGGCGGTAAACCTGCAGAAAGGGGTCCCCTAGCTGGGCACATGCCAGCTCCCGACCC
CACAGGGTGGACTTCTGCTGGGTACCAGGCTCAGACCCAGGCACCTTTGATGGCTCCCCGTGGCTACTGGACCGC
TTCTTGGCCCAGCTGGGCGATTACATGTCCTTCCACTTTGAGCACTATCAGGACAACATCAGCCGTGTCTGCGAG
ATCCTCAGGCGCCTAACAGGCCGAGCCAGGCCTGGGCAGCCCCCTACCTTGATGGGGACCTGCCCTGCCTGAC
GATTACGAGCTCTTCTGCCAGGATCTCAAGGAAGTTGTTCAAGACCCGAACAGTTTTGCTGAGTACCATGCTGTG
GTACCTGTCCCCTGCCCTGGCCTCCAGCCAGCTGCCAGTGGCCCCCTCAGCTGCCTGTGGTGAGGCAATACTTA
GCTAGGTTCTTAGAGGGCCTGGCACTCGACATGGGTACTGCCCCAGGTCTTTACCAGCCGCCATGGCCACCCCT
GCTGTGTCTGGGTCCAACCTCTGTATCTAGAAGTGCTCTGTTTCGAGCAGCAGCTGACCAAGGAGAGCACCCCTGGG
CCAAGGAGCCCCCAGTCTGCCCAGTTCTACATGTAGCTCCAAGCCTGGTCCCTGTGGAACCAGCCTCTTCCAG
CCAGAGGAGGCAGCCCCACACCTGTCCCTAGACTGTGCGAGTCAGCTAATCCTCCTGCCAGAGACCAGACCCA
GCTCATCCAGGAGGTCCAAAACCCAGAAAACAGAGGAGGAGGTTTTGGAGACAGAGGGAGACCAGGAGGTGTCC
TTAGGTACCCACAGGAGGTGGTGGAGGCCCCGAGACCCAGGAGAGCCACCCTTTCTCCTGGGTTCTTGAACA
CAGCCCAGGTGGGAACAATGCTGCCCTCATGATGAAGTGGCCTGTGTGGCTTGAGCGCCCCATAGTCCCCAGTC
AGAGCAGAGTGGTGTCCCCAGATGACTTCAGACCCCATAGCTGGGCAAGATGCGCTTGTTTTGGACTCTGCGCTG
AGCAGAACCAGTCCCCCACTCCAGCAGAGCTTGACCTCCGCCCTGTGCCCTTTCCCTGCTGCTGGCTCTCTGC
TGCATCCCTGCCCGTCTTCTGGGAGTGCCGTCTACCCAGGCCTGCTCCACGAGGGGGTCTGTTTTGTAGATCAA
CTCTCAGCAGATAGTTGCATCATCTTTGTACCTCCACCCCATAAAAACCCCCCTTGGTGTCTTCCACACTGG
CTGGGACTGAACTGGGTCTGCCACGTCTGCCCTGTTGGGACCTCGTTCTGTATGGGGTTTCTGTGTCTGTCCCC
CTAGCCCCACCCTCTCTGCTCCCTGTGACTTCTGTCCAGCTGGAATGTGAGGAAGGCTGCCTGGAGGAAGTGGC
CACTTTGATTCTGGGGGATGAGTGGGATAGCATCTTGGCAAAGAATGATGTTTCTGTGGGATTACCAGCAGTTC
TGGGCAGCTGGAAGGTTTGGATGCAGGAAGGTGGGATGCAAGCCCCTTGCCAGGCTCAGCTGCAGGCATTGCCCC
TTTGTGTGTTAACTGTAGCTCTAATCGTGCCTGGTGTCTGAAGCAGGCTCCTCTTCCCTGCTGCTGTGTGCTGC
CATCCCCTGCTCACTCCGCACTCGCATGCATTGCGGATTGAGCACTTAAGCCCCTAGTGTGTAATGACTTGGATC
TCCCTCCTGGCAGACTGTGACCCTCAGCACAGGGGCTCTGTCTTAGTCAGCTCTGTGGCCTGGTACACAATTGGT
GCTCATTAAACACGTGTTGGATTACTGGCAAAAAAAAAAAAAAAAAA

6448/6881

FIGURE 5952

MEQKSTASGTCGGKPAERGPLAGHMPSSRPHRVDFCWVPGSDPGTFDGSFWLLDRFLAQLGDYMSFHFHEYQDNI
SRVCEILRRLTGRAQAWAAPYLDGDLPLPDDYELFCQDLKEVVQDPNSFAEYHAVVTCPLPLASSQLPVAPQLPV
VRQYLARFLEGLALDMGTAPRSLPAAMATPAVSGSNSVSRALFEQQLTKESTPGPKPEPPVLPSSCCKPGPVE
PASSQPEEAAPTVPRLSESANPPAQRDPAPHPGGPKPKQKTEEEVLETEGDQEVSLGTPQEVVEAPETPGEPPLS
PGF

6449/6881

FIGURE 5953

TGAACACAGCCCAGGTGGGAACAATGCTGCCCCCTCATGATGAAGTGGCCTGTGTGGCTTGAGCGCCCCATAGTCC
CCAGTCAGAGCAGAGTGGTGTCCCCAGATGACTTCAGACCCCATAGCTGGGCAAGATGCGCTTGTTTTGGACTCT
GCGCTGAGCAGAACCAGCTCCCCAACTCCAGCAGAGCTTGACCTCCGCCCTGTGCCCTTTCCCTGCTGCTGGCT
CTCTGCTGCATCCCTGCCCGTCTTCTGGGAGTGCCGTCTCAGCCAGGCCTGCTCCCACGAGGGGGTCGTTTTGTA
GATCAACTCTCAGCAGATAGTTGCATCATCTTTGTACCTCCACCCCATCGTCTGCCCTGTTGGGACCTCGTTC
CTGTATGGGGTTTTCTGTGTCTGTCCCCCTAGCCCCACCTCTCTGCTCCCTGTGACTTCTGTCCCAGCTGGAATG
TGAGGAAGGCTGCCTGGAGGAAGTGGCCACTTTGATTCTGGGGGATGAGTGGGATAGCATCTTGGCAAAGAATGA
TGTTTCCTGTGGGATTACCAGCAGTTCTGGGCAGCTGGAAGGTTTGGATGCAGGAAGGTGGGATGCAAGCCCCTT
GCCAGGCTCAGCTGCAGGCATTGCCCCCTTG

FIGURE 5954

[illegible]

6451/6881
FIGURE 5955

MAAMAVLRGLGGRFRWRTQAVAGGVRGAARGAAAGQRDYDLLVVGGGSGGLACAKEAAQLGRKVAVVDYVEPSP
QGTRWGLGGTCVNVGCIPKKLMHQAALLGGLIQDAPNYGWEVAQPVPDWRKMAEAVQNHVKSLNWGHRVQLQDR
KVKYFNIKASFVDEHTVCGVAKGGKEILLSADHIIATGGRPRYPHTHIEGALEYGITSDDIFWLKESPGKTLVVG
ASYVALECAGFLTIGIGLDTTIMMRSIPLRGFDQQMSSMVIHMASHGTRFLRGCAPSRVRRLPDQQLQVTWEDST
TGKEDTGTFTDVLWAIGRVPDTRSLNLEKAGVDTSPDTQKILVDSREATSVPHIYAIGDVVEGRPELTPIAIMAG
RLLVQRLFGGSSDLMDYDNVPTTVFTPLEYGCVGLSEEEAVARHGQEHVEVYHAHYKPLEFTVAGRDASQCYVKM
VCLREPPQLVLGLHFLGPNAGEVTQGFALGIKCGASYAQVMRTVGIHPTCSEEVVKLRISKRSGLDPTVTGCRV

6452/6881
FIGURE 5956

CACCGCCATTGCCGCCATCGTCGTGGGGCTTCTGGGGCAGCTAGGGCTGCCCGCCGCGCTGCCTGCGCCGGACCG
GGGCGGGTCCAGTCCCGGGCGGGCCGTGCGGGGAGAGAAATAACATCTGCTTTGCTGCCGAGCCAGAGGAGACCC
CAGACCCCTCCCGCAGCCAGAGGGCTGGAGCCTGCTCAGAGGTGCTTTGAAGATGCCGGAGGCCCGCCTCTGCT
GTTGGCAGCTGTGTTGCTGGGCCTGGTGCTGCTGGTGGTGCTGCTGCTGCTTCTGAGGCACTGGGGCTGGGGCCT
GTGCCTTATCGGCTGGAACGAGTTCATCCTGCAGCCCATCCACAACCTGCTCATGGGTGACACCAAGGAGCAGCG
CATCCTGAACCACGTGCTGCAGCATGCGGAGCCCGGGAACGCACAGAGCGTGCTGGAGGCCATTGACACCTACTG
CGAGCAGAAGGAGTGGGCCATGAACGTGGGCGACAAGAAAGGCAAGATCGTGACGCCGTGATTTCAGGAGCACCA
GCCCTCCGTGCTGCTGGAGCTGGGGGCCTACTGTGGCTACTCAGCTGTGCGCATGGCCCGCCTGCTGTCACCAGG
GGCGAGGCTCATCACCATCGAGATCAACCCCGACTGTGCCGCCATCACCAGCGGATGGTGGATTTGCTGGCGT
GAAGGACAAGGTCACCCCTTGTGGTTGGAGCGTCCCAGGACATCATCCCCAGCTGAAGAAGAAGTATGATGTGGA
CACACTGGACATGGTCTTCCTCGACCACTGGAAGGACCGGTACCTGCCGGACACGCTTCTCTGGAGGAATGTGG
CCTGCTGCGGAAGGGGACAGTGCTACTGGCTGACAACGTGATCTGCCAGGTGCGCCAGACTTCCTAGCACACGT
GCGCGGGAGCAGCTGCTTTGAGTGACACACTACCAATCGTTTCTGGAATACAGGGAGGTGGTGGACGGCCTGGA
GAAGGCCATCTACAAGGGCCCAGGCAGCGAAGCAGGGCCCCTGACTGCCCCCCCCGGCCCCCTCTCGGGCTCTCTC
ACCCAGCCTGGTACTGAAGGTGCCAGACGTGCTCCTGCTGACCTTCTGCGGCTCCGGGCTGTGTCCTAAATGCAA
AGCACACCTCGGCCGAGGCCTGCGCCCTGACATGCTAACCTCTCTGAACTGCAACACTGGATTGTTCTTTTAA
GACTCAATCATGACTTCTTTACTAACACTGGCTAGCTATATTATCTTATATACTAATATCATGTTTTAAAAATAT
AAAATAGAAATTAA

6453/6881
FIGURE 5957

MPEAPPLLLAAVLLGLVLLLVLLLLLRHWGWLCLIGWNEFILQPIHNLLMGDTKEQRILNHVLQHAEPGNAQSV
LEAIDTYCEQKEWAMNVGDKKGKIVDAVIQEHQPSVLLELGAYCGYSAVRMARLLSPGARLITIEINPDCAAITQ
RMVDFAGVKDKVTLVVGASQDIIPQLKKKYDVDTLDMVFLDHWKDRYLPDTLLLEECGLLRKGTVLLADNVICPG
APDFLAHVRGSSCFECTHYQSFLEYREVVDGLEKAIYKGPGEAGP

6454/6881
FIGURE 5958

GCTGTTGGCAGCTGTGTTGCTGGGCCTGGTGCTGCTGGTGGTGCTGCTGCTGCTTCTGAGGCACTGGGGCTGGGG
CCTGTGCCCTTATCGGCTGGAACGAGTTTCATCCTGCAGCCCATCCACAACCTGCTCATGGGTGACACCAAGGAGCA
GCGCATCCTGAACCACGTGCTGCAGCATGCGGAGCCCGGGAACGCACAGAGCGTGCTGGAGGCCATTGACACCTA
CTGCGAGCAGAAGGAGTGGGCCATGAACGTGGGCGACAAGAAAGGCAAGATCGTGGACGCCGTGATTTCAGGAGCA
CCAGCCCTCCGTGCTGCTGGAGCTGGGGGCCTACTGTGGCTACTCAGCTGTGCGCATGGCCCCGCCTGCTGTCACC
AGGGGCGAGGCTCATCACCATCGAGATCAACCCCGACTGTGCCGCCATCACCAGCGGATGGTGGATTTTCGCTGG
CGTGAAGGACAAGGTCACCCTTGTGGTTGGAGCGTCCCAGGACATCATCCCCAGCTGAAGAAGAAGTATGATGT
GGACACACTGGACATGGTCTTCCTCGACCACTGGAAGGACCGGTACCTGCCGGACACGCTTCTCTTGGAGGAATG
TGGCCTGCTGCGGAAGGGGACAGTGCTACTGGCTGACAACGTGATCTGCCCAGGTGCGCCAGACTTCCTAGCACA
CGTGCGCGGGAGCAGCTGCTTTGAGTGACACACTACCAATCGTTCCTGGAATACAGGGAGGTGGTGGACGGCCT
GGAGAAGGCCATCTACAAGGGCCCAGGCAGCGAAGCAGGGCCCCTGACTGCCCCCCCCGGCCCCCTCTCGGGCTCT
CTCACCAGCCTGGTACTGAAGGTGCCAGACGTGCTCCTGCTGACCTTCTGCGGCTCCGGGCTGTGTCCTAAATG
CAAAGCACACCTCGGCCGAGGCCTGCGCCCTGACATGCTAACCTCTCTGAAGTGAACACTGGATTGTTCTTTTT
TAAGACTCAATCATGACTTCTTTACTAACACTGGCTAGCTATATTATCTTATATACTAATATCATGTTTTAAAA
TATAAAATAGAAATTAA

6455/6881
FIGURE 5959

MGDTKEQRILNHVLQHAEPGNAQSVLEAIDTYCEQKEWAMNVGDKKGKI VDAVIQEHQPSV LLELGAYCGYSAVR
MARLLSPGARLITIEINPDCAAITQRMVDFAGVKDKVTLVVGASQDIIPQLKKKYD VDTLDMVFLDHWKDRYLPD
TLLLEECGLLRKGTVLLADNVICPGAPDFLAHVRGSSCFECTHYQS FLEYREVVDGLEKAIYKGP GSEAGP

6456/6881
FIGURE 5960A

GGCGGTTCGGTTCGGTGAGGCTTTCCCGGCTGTGGTTTGGCTGCGGGCGGCTTGGGCAGCCCGCGGGCGCCTCAGGT
AGAAGAAGAAAGGTGCCACTCCGGCATGAAGACAGACTCGCTTAGTCGCCAGTCACTTAAGCTGAGTGCATTGTG
ATTTCCAATAATTGAGGCAGTGGTTCTAAAAGCTGTCTACATTAATGAAAAGAGCAATGTGGCCAGCTTGACTAA
GCCGCCAGCGCACAGCGCGGCAGGACGCGCCCGGGTCTCAGCGGACTTGTGCATGTTAGCTGTGTAGATTTATGT
GAGGGCTTGTAAAACCTCTGGTCTTGTAAACTAGTCTTAAGCGCTTTTAATATGGAGACAGATGAGAGCCCCCTCTC
CGCTCCCGTGTGGGCCCCGAGGAGAAGCGGTGATGGAGAGCCGAGCTCGCCCCCTTCCAAGCGCTGCCCCGTGAGC
AGTCTCCACCACCTCCCCTGCAAACGTCCAGTGGTGCAGAGGTAATGGACGTTGGCTCTGGTGGT¹GATGGACAGT
CCGAACCTCCCTGCTGAGGACCCCTTCAACTTCTACGGAGCTTCTCTTCTCTCCAAAGGATCCTTCTCTAAGGGCC
GCCTCCTCATAGACCCGAACCTGTAGTGGCCACAGCCCGCGCACCGCCCCGGCACGCACCTGCGGTCCGGAAGTTCT
CCCCTGACCTTAAGTTGCTTAAGGATGTAAAGATTAGCGTGAGCTTTACCGAGAGCTGCAGGAGTAAGGACAGGA
AGGTGCTGTACACAGGAGCAGAGCGCGACGTGCGGGCGGAGTGCGGTCTGCTCCTTAGCCCTGTGAGTGGGGACG
TGCATGCTTGTCCCTTTGGCGGGAGTGTGGTGACGGGGTAGGCATAGGGGGTGAGAGTGCTGATAAGAAGGATG
AGGAGAATGAGCTGGATCAGGAAAAGAGAGTGGAGTATGCAGTGCTCGATGAGTTAGAAGATTTTACTGACAATT
TGGAGCTAGATGAAGAAGGAGCAGGCGGGTTACGGCTAAAGCAATCGTTCAGAGAGACAGAGTGGATGAAGAGG
CCTTGAATTTCCCCTACGAGGATGACTTTGACAACGATGTGGATGCTCTGCTGGAAGAAGGCCTTTGTGCCCCCA
AAAAGAGGCGAACAGAGGAAAAATATGGCGGAGACAGCGACCATCCGTCCGATGGAGAGACAAGTGTGCAGCCGA
TGATGACCAAGATTAAAACAGTGCTCAAAAGTACGTGGCCGCCACCTACAGAGCCGCTGCCCCACGGGTGGATC
ATGACATTCCATAACTCTGGAGTCCCGGTGTACCTACACAGAGAGTCTCGGGTGGTCACCTGGTCCAGGCCATAC
TTCTTGGGAACGGGAAGCATACGGAACACGACCCCTCCTCTGAGTAGCATCCCTTGTCTGCATTATAAGAAAATG
AAGGACAACGAGGAACGGGAGCAAAGCAGTGACCTCACCCCTAGTGGGGATGTGTCCCCCGTCAAGCCCCTGAGC
CGATCTGCAGAGCTGGAGTTTCCCCTGGATGAGCCTGACTCTATGGGTGCTGACCCGGGGCCCCCGGACGAGAAA
GACCCACTAGGGGCTGAGGCAGCCCCTGGGGCCCTGGGGCAGGTGAAGGCCAAAGTCGAGGTGTGCAAAGATGAA
TCCGTTGATCTCGAGGAATTTGGAAGCTACCTGGAGAAGCGTTTTGACTTTGAGCAAGTTACTGTGAAAAAATTC
AGGACTTGGGCTGAGCGGCGGCAATTCAATCGGGAAATGAAGCGGAAGCAGGCGGAGTCCGAGAGGCCCATCTTG
CCAGCCAATCAGAAGCTCATTACTTTATCAGTGCAAGATGCACCCACAAAGAAAGAGTTTGTTATTAACCCCAAC
GGGAAATCCGAGGTCTGCATCCTGCACGAGTACATGCAGCGTGTCTCAAGGTCCGCCCTGTCTATAATTTCTTT
GAATGTGAGAACCCAAGTGAGCCTTTTGGTGCCTCGGTGACCATTGATGGTGTGACTTACGGATCTGGAACCTGCA
AGCAGCAAAAAA²CTTGCGAAGAATAAAGCTGCCCCGAGCTACACTGGAAATCCTCATCCCTGACTTTGTTAAACAG
ACCTCTGAAGAGAAGCCCAAAGACAGTGAAGAACTCGAGTATTTTAACCATCAGCATCGAGGACTCGCGGGTC
TACGAGCTGACCAGCAAGGCTGGGCTGTTGTCTCCATATCAGATCCTCCACGAGTGCCTTAAAGAAACCATGGG
ATGGGTGACACGTCTATCAAGTTTGAAGTGGTTCCTGGGAAAAACCAAGAGTGAATACGTCATGGCGTGTGGC
AAGCACACAGTGC³CGGGTGGTGTAAAGAACAAGAGAGTTGGAAAGCAGTTAGCCTCACAGAAGATCCTTCAGCTG
CTGACCCACATGTCAAGAACTGGGGTCTTTACTGCGCATGTATGGCCGTGAGAGCAGCAAGATGGTCAAGCAG
GAGACATCGGACAAGAGTGTGATTGAGCTGCAGCAGTATGCCAAGAAGAACAAGCCCAACCTGCACATCCTCAGC
AAGCTCCAAGAGGAGATGAAGAGGCTAGCTGAGGAAAGGGAGGAGACTCGAAAGAAGCCCAAGATGTCCATTGTG
GCGTCCGCCCAGCCTGGCGGTGAGCCCCTGTGCACCGTGGACGTTGTGAGGGAGGTGGCACGGGCCAGGGCGCGGG
GGCCGCCAGCCGCACTTCTGAGGAGACCAGCAGTCATGCATCGTGCACCACAGTGTGAGGCCTCCAACCCACGCT
CCTTCCCTGTGGCCAACCTGTGGGCCCGGCCTTAGGGTGGAGGCTTTAGTGTACAGGGACAGCCATGGCCACACA
GCACACATGTGGAGCAGCGGCTCTCCCTGGAAAGCTCCAGGCCTGAATGGATGGACTCAGCGACTGCACCAAGTGG
CAGCTGGTGA⁴CTGTGGACAGTGGTGGACCCCTGCTTCTGTGCACCTGCTGCAGGCTCTTTTTATGAAGGCTTTTCA
GAATTTTAGTATGTAATACGCACTGACGACACATGATGCTTGGATGACAGATGAGAGGGGATGGCTGAGTCTGT
GGCTGGCCCGTGATGCCAGGTGGCCCATGTGCCAGGGCGCCTGCAGGGCTGTACAGGGACCTGGTCAGGAGGT
GCACATGGTGCCTTGCCTCACCCACCCCTCTGTGTTTTCCCTTCTTTGAAAAGGTAGAAGAGAAAGGAATATTTT
AAACCTTTTTTGGCTTAAACAGAATTTTAGCATCAGAACTAGCTTTCTGGGATTGGAGGCAAACCATCAAGGTGGT
CCCTCTCCAGTCTGGACACGATGCCAGCAAGGATGACGTCTGCCACCTCCTGGAGTTACCCTGGCCTCCTAGGG
TCCCTTTTTTCTGATGAAGTCTTAATTCCTAAAAGCGCTCTTTGGACACTGAGGCCCTCTCTGCCTTTCTGGC
CTCCGGCAACAGTTTTTTACAAAGATTTTTTGCAGTCGAGTCCATATGTCCACCCATTGATTTTTTAAAGCTTTTG
TGATATTTTAGCATTTTGAAAGACTTTCACAGTGAGAGTAGAAGGTAGATTTGGAATCATGCATTTTAGCAAGTG

6457/6881
FIGURE 5960B

GACTTGTGAAACAGGAAGCAAGGGCCTTCAGTGTAGCCCATTCTTGATCCAGAGCTGTTGCCTGTGACAGCGGT
TTCTCTGGATGTCAAAGGCAGCTGCCTGGTGCCCAGCTTGCTTCTCGACTGGTGGCCCCCTATGGGTGGGTGTGCG
ATGGAAATGTGTTCCCTGCCGGAGTCTGAGGCACCAGGGTGTGCTCAAAGGCTGGCCCTGGTGGTGGACTGGCACC
TGTGCAGAGTGCCGTGTGCTTGTGGTGCGCCATCTGAAGCAAGAGTCCAGCGTTCTGCCGTGTCTGTCCCCCACC
ATGCCCCCTACAGGCGGTACTGATGGCGCTTTTTTTTTTTTTTTTTCTGTGCAGGAAAACAATGTTGGCCTGTGGGCGG
CCCACAACATATCCTTCCCTCACTACCTGTGTGACCAAGGTTGGCTTCTGTTGACCTTTAAAAAAGAAACCCCTCA
ACTCAAATTGCTATAATTAGACACTTGCTTCTGTCTTGCCTCCTGTCTGCAGCTGTGAATAGTCATTTGACTGTG
ACTGTTGCCCTTAGCCAGCCAGATGCGCCTGTGAACCAAAGCTTCGTGCACATGTGTTCCCTTAAAGGTTGGGGA
GCCTCGCTGTGTCTTGCTGTTCCAGGCACCACCACAGCAGGTGCTGCCATACTCTTGTGGTCTCTGTGCGCCCC
CCCCCCCCCCCCACCCGTCTGCCAAGCATGGGTATGAATCGTGCACACAGCCATGCTTCAAGGCCGGGGCAGGGG
AGCCTGTGCTGATGCCATCCAGGGCACTGGGCTGTGCCTGGAAGGCGAGCCTTGATTGTCTGAACACATAAAGCA
AACTGTCCAG

6458/6881
FIGURE 5961

GTTGCCAGAAGCCAGGATCATAGAGACGCTCGGCCTCCGCCGCACGCGCTGGCGGACTAAGAGTGGCTGGCGAAG
CGAGCGGCCGGCGCGGGCCCTGGCGGGCGGGCGGTACAGCCCCAAGCCTGAGACCCGGACCTGAGCATCGCAGG
TTCGAGTCCCGCCCCGCCTGGGGCGAAGCCGGGGGTGGCGGGCAGCTCGCGGCGTTGCACCGGCTCTGTGAGCAC
CTCCCCCTCTGAGCACTTCCCTTGTGACAGGCCACTTCCCTTGTGACAGGCCCAGGACGAGGTGGCCAGGCGGGCC
CCATGGCGTCCCTGGTCTAGGCGGAGAACCCTGGGCGATGAGTGAGAACCTCGACAACGAGGGCCCCGAAGCCC
ATGGAGAGCTGTGGCCAGGAGAGCAGCAGTGCCCTGAGCTGCCCTACCGTCTCGGTGCCCCCTGCAGCCCCGGCA
GCCCTGGAGGAGGTGGAGAAAGAGGGCGCTGGGGCGGCTACAGGGCCGGGGCCTCAGCCCCGGGCTCTACAGCTAC
ATCAGGGATGACTTGTTTACCTCTGAGATCTTTAACTGGAGCTGCAGAACGTGCCTCGCCACGCCAGCTTCAGC
GACGTCCGGCGCTTCCCTGGGCGCTTTGGTCTGCAGCCCCACAAAACCAAACCTCTTTGGGCAACCACCCTGCGCC
TTTGTGACATTCCGCGAGCGCTGCAGAGAGGGACAAGGCCCTGCGCGTTTTCATGGTGCCCTCTGGAAAGGCCGC
CCACTCAGTGTGCGCTGGCCCGGCCCAAGGCCGACCCCATGGCCAGGAGGAGGCGACAGGAGGGTGAGAGTGAG
CCACCAGTAACACGAGTGGCCGACGTGGTGACCCCTCTATGGACAGTGCCCTATGCTGAGCAGCTTGAGCGGAAG
CAGCTGGAGTGCAGAGCAGGTGCTGCAGAACTTGCCAAGGAAATCGGGAGCACCAACCGTGCCTTGCTGCCCTGG
CTGCTCGAGCAGAGGCACAAGCACAACAAGGCCCTGCTGCCCCGCTGGAGGGGGTTCAGGCCATACCCCCAGCAGACT
GAGTATCGTAATAAGTGTGAGTTTCTGGTTGGCGTCGGGGTGGATGGGGAGGATAACACCGTGGGCTGTGCGCTC
GGCAAGTACAAGGGCGGGACGTGTGCTGTGGCAGCCCCGTTTGACACCGTGCACATCCCCGAAGCCACCAAGCAG
GTGGTGAAGGCCCTTCAGGAGTTTCATCCGGTCCACTCCATACTCGGCATACGACCCAGAGACGTACACAGGCCAC
TGGAAGCAGCTGACTGTGCGCACCCAGCCGCCGCCACCAGGCCATGGCCATTGCCTACTTCCACCCCCAGAAGCTG
AGCCCTGAGGAGCTGGCAGAGCTGAAGACCTCCCTAGCGCAGCACTTCACAGCAGGGCCAGGCAGGGCCAGTGGA
GTGACCTGCCTCTACTTCGTGGAGGAGGGACAGCGAAAGACTCCTAGCCAGGAGGGCCTGCCCCTGAGCATGTG
GCTGGGGACCGGTGCATCCACGAGGACCTGCTAGGGCTGACCTTCCGGATCTCTCCACACGCCTTCTTCCAGGTG
AACACACCCGCGAGCCGAGGTGCTCTACACAGTCATCCAGGACTGGGCCCAATTGGATGCGGGGAGCATGGTGCTG
GACGTGTGCTGTGGCACCGGCACCATTTGCCCTGGCCCTGGCCCGGAAGGTAAAGAGGGTCATTGGGGTCGAGCTA
TGCCCAGAGGCTGTGGAGGACGCCCGGGTGAACGCCCAGGACAATGAGTTGAGTAATGTGGAGTTCCACTGCGGG
AGGGCCGAGGACCTGGTGCCACCCCTGGTGGGCAGACTGGCCTCCAGCACCTCGTGGCCATCCTGGACCCACCC
CGTGCTGGCTTGCAATTCCAAGGTGATCCTGGCCATCCGAGAGCTAAGAACCTCAGGCGGCTGCTGTACGTCTCA
TGCAACCCCCGGGCAGCCATGGGCAACTTTGTGGACGCCCCCTTTTCCCCCACAGCCTCTGCAGAGCCCCATC
TAACCGGGTGAAGGGCATTCCCTTCCGGCCGGTCAAGGCTGTGGCAGTGGACCTGTTCCCGCAGACCCCGCACTG
TGAGATGCTCATCCTGTTTGTAGAGGGTGGAGCACCCCAATGGCACAGGGGTCTTGGGGCCCCACAGCCCTCCAGC
TCAACCCACACCAGGACCCCCAGATAACACCCTACAAGAACTGGGACCTTCCCCTCATCCTAGGCCCAGGACCC
ATTATGGGGACAGGAGCTGAAGGGCTCCCAGGGCCCCAGGGGCGGGGAAGGCATGGCTTGCTGGCCAGGATATTC
AGAGGTAGGCAGCCAAAGGGCACAGAACCCTGTGCCCCACCAGGATTGGCCTGCTGCTAGGGGCCAGGGGCCCTG
ACCAGGAAGACAGGTGGGTTTCTGTAGCCTGTTGCCCATCCCCAGGGCCTTTGTGGACTAGCCAAGGCTGTGAGG
GCCAGAATAACAACCTGCTCAAC

6459/6881
FIGURE 5962

MSENLDNEGPKPMESCGQESSALSCTVSVPPAAPAALEEVEKEGAGAATGPGPQGLYSYIRDDLFTSEIFKL
ELQNVPRHASFSDVRRFLGRFGLQPHKTKLFGQPPCAFVTFRSAAERDKALRVLHGALWKGRPLSVRLARPKADP
MARRRRQEGESEPPVTRVADVVTPLWTVPYAEQLERKQLECEQVLQKLAKKEIGSTNRALLPWLLEQRHKHKNKACC
PLEGVRFSPQQTEYRNKCEFLVGVGVDGEDNTVGCRLGKYKGGTCAVAAPFDTVHIPEATKQVVKAQFQEFIRSTP
YSAYDPETYTGHWKQLTVRTSRRHQAMAIAYFHPQKLSPEELAEKTSLAQHFTAGPGRASGVTCLYFVEEGQRK
TPSQEGLPLEHVAGDRCIHEDLLGLTFRISPHAFFQVNTPAAEVLYTVIQDWAQLDAGSMVLDVCCGTGTIGLAL
ARKVKRVIGVELCPEAVEDARVNAQDNELSNVEFHCGRAEDLVPTLVGRLASQHLVAILDPPRAGLHRSKVLAIR
RAKNLRRLLYVSCNPRAAMGNFVDAPLFPPQPLQSPI

6460/6881
FIGURE 5963

CAGTGGCTCACACAGGTCACCTGCACGCCAGGGCCTGCCCTCCCCGCCCCGSCACTCCCCACTCACCAGGGCCCTC
TGCCAGCCCTACACGGCACACGCTGGTTAAGAAGGTGTCCGGCGTGGGTGGGACCACCTACGAGATCTCGGTGTG
AGGACTGACTGCCACACATCCGCCATGGTGCCACGGGGACCAGGACCCACAGCGCACCCCCCTCCCCACCAAC
TTCTCTGCCCCAGGGACCCGAGGCCACCCAGCCTGGTGTGGACCCATCGGCGGGAGAGAGTGCCACGCCTCCAC
AGCTTGCCCCAAGCGCTCTGCCTGCCCCTCCACTCATCTGCCCATGGGGAAGTCGGCTCACTGGGACAAGGGCCA
CTGGGCTGGTCTGTGTCTGGGCCTGTCCATGGCTGGGGCAGTGAGGGGGGCCAGTCAGCCTCTTTGGGGCACCC
TCTCTCAGCCAGGCTTGGCCCACTGCCATCACCAGCACCCAGATCACCGCCAGGCCAGCCCCAATGGTCCCC
TTACGGACAGGTCCCAGAGATGGACAGAGGCACCCAGGGCCCCCACCCTCCTTCTGACACAGCCTGTGGGCTCCC
GGACCGAGTGTCCCCCGCCAGGCTACTCCTAACTAACGCGTTGCCTTTCACGGACCCCGCTGGAAGCTTGTAGCT
TGGCAAGGCTGATGCTTCTGCCCTGGCCTGCTCTGGGTGGTGGTGA

6461/6881
FIGURE 5964

TCTTCTCGAGGCCCTCCGTTGCCTCGTCTGTGCCCCGGGCGGTGGTGCTTACCCGGCGGGGTCGCAGGGAGGTCTCG
TGGCGGCGCGTGTGGGTCTGCGTTTCCCCTCTGGGGTGCTTGGGCAGCATGAGCCCAGGGCTGTGGACAGCCTG
GTGCTCACGGGTTTGTGGCTCCACAGACTTCCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAACTGC
CAGCGGCTGGACCCCAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACACTTT
GAGGAGGACTGACCGAGGGGCTGCCCAGCAAGACTGCAGCCTCTTCCTCCCTCAGATCCCACCAGACCCACCAGG
TGCCATAATAAAGCGGATTCTAGACGGAG

6462/6881
FIGURE 5965

CGTGAGTGCCGCTGACAGAAGTCAAGAGAATCGGCTGGGACGGGGTTGGGGCGACAACGGGCCGGGGGGGACCCG
ACAGGCCAGAGCCCCCTTGGGGAGGAGCGGCGGCTGGAGGCGCGAGGCTCCTCCGGATGCCCGGAGAGCCGCTTGC
GACTTAACTCCCGCCTCTTTCCCAGATGCCGCGTCACTGCTCCGCCGCCGGCTGCTGCACACGGGACACGCGCGA
GACGCGCAACCGCGGCATCTCCTTCCACAGACTTCCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAA
CTGCCAGCGGCTGGACCCCAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACA
CTTTGAGGAGGACTGCTTTGAGCTGGTGGGAATCAGTGGATATCACAGGCTAAAGGAGGGGGCAGTCCCCACCAT
ATTTGAGTCTTTCTCCAAGTTGCGCCGGACAACCAAGACCAAGGACACAGTTACCCACCTGGCCCCCTGAAGT
CAGCCGGCTCAGACGATGCAGGAAGCGCTGCTCCGAGGGCCGAGGGCCCCAACAATCCATTTTCTCCACCTCCACC
TGCTGATGTACCTGCTTTCCTGTGGAAGAGGCCTCAGCACCTGCCACTTTGCCGGCCTCCCCAGCTGGGAGGCT
GGAGCCTGGCCTTAGCAGCCCCCTTTTCAGACCTACTGGGCCCCCTTGGGTGCCCAGGCAGATGAAGCAGGCTGCAG
CGCCCAGCCTTCACCAGAGCGGCAGCCCTCCCCTCTCGAACCACGGCCAGTCTCCCCCTCAGCGTATATGCTGCG
CCTGCCCCCACC CGCGGAGCCTACATCCAGAATGAACACAGCTACCAGGTGGGCAGCGCCTTACTCTGGAAGCG
GCGAGCCGAGGCAGCCCTTGATGCCCTTGACAAGGCCCAGCGCCAGCTGCAGGCCTGCAAGCGGCGGGAGCAGCG
GCTGCGGTTGAGACTGACCAAGCTGCAGCAGGAGCGGGCACGGGAGAAGCGGGCACAGGCAGATGCCCGCCAGAC
TCTGAAGGAGCATGTGCAGGACTTTGCCATGCAGCTGAGCAGCAGCATGGCCTGAGGGGGCTGCTGGACTGACCGA
GGGGCTGCCCAGCAAGACTGCAGCCTCTTCCTCCCTCAGATCCCACCAGACCCACCAGGTGCCATAATAAAGCGG
ATTCTAGACGGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6463/6881
FIGURE 5966

MPRHCSAAGCCTRDTRNTRNGISFHRLPKKDNPRRGLWLANCQRLDPSGQGLWDPASEYIYFCSKHFEEDCFEL
VGISGYHRLKEGAVPTIFESFSKLRRTTKTKGHSYPPGPPEVSRLRRCRKRCSEGRGPTTTFSPPPPADVTCFPV
EEASAPATLPASPAGRLEPGLSSPFSDDLGLGAQADEAGCSAQSPERQSPLEPRPVSPSAYMLRLPPPAGAY
IQNEHSYQVGSALLWKRRAEAALDALDKAQRQLQACKRREQRLRLRLTKLQQERAREKRAQADARQTLKEHVQDF
AMQLSSMA

6464/6881
FIGURE 5967

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCTGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGGGGAGCAGGACGCCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGAGCAGTTCCCCAACAAGAAAGCTACA
GGAGGAACCTTGCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCA
CATTTGAAAACAACCTCTTTTATAATTATTCAGTGTCTTTTGTGAGTGAATAGACATCTTGCCCTCTGAAGTAG
CTTCATCACAGAGTGTATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCCTCCCTT
CAAGGAGTATGTCATATGTCACAAAAGAAATTGCCTTACACTGGTTCATGTTTGAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAAATAATGTATATATGGAAAGTGACAGACAAATCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTTCCAAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAGTATTTTAAATATGGTTTTTCACTGCTAAAT
TGGAGTCAGATACTTCTTGGTTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAAACTCCTTTTCAAGTTTTTGCAAGTAGATTTTGTAAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTGATAATCACTGTTACATCCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAACAACAAAAA

6465/6881
FIGURE 5968

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGGGGAGCAGGACGCCCGCGCGGCAGCATGAGTCAGCAGCGGCCGCGGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACTTTCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAAATGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTTCCA
CATTTGAAAACAACTCCTTTTATAATTATTCAGTGTCTTTTGTGAGTGAATAGACATCTTGCTCCTGAAGTAG
CTTCATCACAGAGTGTATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCTTCCCTT
CAAGGAGTATGTCATATGTCACAAAAGAAATTGCCTTACACTGGTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAAGTGACAGACAAATTCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAAGTATTTAATATGGTTTTTCACTGCTAAAAAT
TGGAGTCAGATACTTCTTGGTTTTTAAGCTGTCTACCTAATTGCTGTCTCCCAGCAGATCGGTGGCATGCCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAAACTCCTTTTCAGGTTTTTGCAAGTAGATTTTGTAAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCCTGAGGGACTTTGTCATAATCACTGTTACATCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAAAAAAAAAAAA

6466/6881
FIGURE 5969A

CAAGAACGTCCCTAGCCGCCAGCAGCATCTATTTCAAGTCCCTGGTCCCTGCACGACAACCTCATCAACCTGGACAC
AGACATGGTCAGCTCCACAGTGTTCAGCAGATCTTGGACTTCATCTACACAGGCAAGCTGCTGCCCAGCGACCA
GCCAGCCGAGCCCAACTTCAGCACCTCTCTACTGCCGCCAGCTACCTCCAGCTGCCCGAGTTGGCAGCCCTCTG
CCGCCGCAAACCTCAAGCGAGCCGGCAAGCCCTTTGGCTCTGGGAGGGCGGGGTCCACTGGCATGGGGCGGCCCCC
CCGCAGCCAGCGGTGTCCACGGCTCTGTTCATCCAAGCTCGGTATCAGGGGCTCGTGGATGGGCGCAAGGGGGC
CCACGCCCCCAGGAGCTCCCCAAGCCAAAGGCTCAGACGATGAACTCTTCTTGGTGGCTCTAACCAGGATAG
CGTGCAAGGTCTGGGCCGGGTGTCTGCCAGCTGGCGGGGAGGCGGGTCTGGGGGGCTGCAGCAGCAGCACCAA
CGGGAGCAGCGGGGGTGCAGCAGGAGCTGGGCTTGGACCTGTCCAAGAAAAGCCACCCTTGCCCCCTGCCAC
CCCAGTCCCCACCTCACTCCCGATGACGCAGCCAGCTGAGCGACAGCCAACATGGCTCGCCCCCTGCGGCCTC
TGCTCCTCCCGTTGCCAACAGTGCCTCTTATTCTGAGCTGGGGGGCACCCCTGATGAGCCCATGGATCTGGAGGG
GGCCGAGGACAACCACCTGAGCCTGTCTGGAGGCGCTGGTGGGCAGCCTCGGAAGAGCCTCCGGCACTCCACTCG
GAAGAAGGAGTGGGGCAAGAAGGAGCCTGTGGCTGGCTCCCCCTTTGAGCGGAGAGAAGCAGGGGCCAAGGGTCC
CTGCCCCGGGAGAGGAGGGGTGAGGGGGTCCGGGACAGGGTTCCCAATGGCATCCTGGCTAGTGGGGCTGGCCCTAG
CGGGCCCTATGGGGAGCCCCCTACCCCTGCAAGGAGGAGGAGGAGAACGGCAAGGATGCAAGTGAAGACAGTGC
GCAGAGCGGGAGCGAGGGGGGCGAGCGGCCATGCCAGCGCCCACTACATGTACCGGCAGGAGGGCTACGAGACGGT
GTCCTACGGGGACAACCTTGTATGTGTGCATTCCCTGCGCCAAGGGCTTCCCCAGCTCTGAGCAGCTCAATGCGCA
CGTGGAGACTCACACGGAGGAAGAGCTGTTTCATCAAGGAAGAGGGGGCTACGAGACAGGCAGTGGGGGTGCCGA
GGAGGAGGCCGAGGACCTGTTCAGCACCCAGTGCAGCTTACACGGCTGAGCCCCGGCCCTTCAAGTGTTCGGTCTG
CGAGAAGACCTACAAGGACCCAGCCACGCTGCGGCAGCACGAGAAGACGCACTGGCTGACACGGCCCTTCCCTG
CAACATCTGTGGCAAAATGTTACGCAGCGCGGCACCATGACGCGTCACATGCGGAGCCACCTGGGCCTGAAGCC
CTTCGCCTGCGATGAGTGTGGCATGCGCTTACCCGTCAGTACCGCTCACGGAGCACATGCGTGTGCACTCGGG
CGAGAAACCTTACGAGTGCCAGCTGTGCGGGGGCAAGTTCACCCAGCAGCGCAACCTCATCAGCCACCTGCGCAT
GCACACCTCCCCCTCTAGAAGCCAAAGACCCGCGGGCGCCCTCTGCCACCTTGCTCCCCGGGAACCCATGGAAG
GAGAAGCGAGGTGATGCAGCAGCAGGGGCAAGACCCTGGGTCCAGTGGAGGCTCCGGGTGGCCCTCTGGCCCCC
ACTGCCACACCCAGAGCTTTAATGGACAGTCCGTACCAAGCAGAGCCGAGAGGAGGGAAGCCAGGGGTCCCAGC
CCGTCTACCTCCCCATCCCACCCAGGCCCCAGCTCCCCGCGGGGGCCACCGCAGGGCCTGTGGGTGGGTACG
TGGGTCTCGCTGGGACCTGGTCCCTTTGTTGCAGGCGGCTTGGAGAAAGGGCAGTGGGACGCTGGCCACGGCCAG
GGTGGTGTGCGGAGCAGGCCTACCCCGCTGGCCGTGTCTGTGTGTGTGCACGTGTGCTTGTGTCTGTGCGGGCG
CGTGCAGCCCTGGTTCTGCAGGGAACAGGTGCTGGGGGTGCAGATCCCTCCCTCCTTGAGCCAGGGTGGCACTGT
TCACTGGCGCTGGGACAGTCAGGGTGACCCACCGCCTACCTCTCTACATCTAAAGAGCCCTCTGGGCCTGTGTT
GCTGTTATTCTACTGATCTGTTCTCTGTTTTCTTTTTGATTTTTGTTTTTAAACCAAAACAGACAATAGCT
TATTTTCTTTCCGCCCCCTCCGGGGCTGAGCCTGGGTCTGAAGACTGAATGTAACAGGGGGCGCTGGCACTCCTG
CGCGTCCCCCGGCTCTGGCGCTGCAGGGGTGTGCGCGGCCACCTCTCCAGGCCCCAGAAGCCCTTCTTGCCCAA
AGGCTTCCCTGGTCCCTGAGCCCTGCCTCGGCTGCCTCAGGGGAGAGTGCTTTTCTGTAGTTTCCAAGGAATAT
TCTTTGTTTAGAGGTACTTGTTTTTTATTAAGAGAAAACAGTGTAACGTTTATGTGACTGTTTGAAGTGGAAAG
GTCTGGGGTTCCGGGGGGTGGGGGGAGGCTAGACTCAATGCCGGGGCGTCCGGTACTCTTGTTTTCATTTGTGTG
TGCCTGCGTGTGTGTGTGTGTATGTGCGTATGTGTGTGTCTATGTGTGGTGTGTGCCGTATGCATGGGCAGATGT
TTGCTTTTCCCTCCTTCCCTCGCTGAACAAGGTGGAGACTTCTGACCTTTTGCTACCTCTTGAATTCATGACAACG
ATATGTTGGTGAAGTGGCAGTGGAAAGCCCTTGACACTCTTGTTTTTCTTTCGCTTAGCACCTAGGAAGTCGTGTGCA
GGAGCCAGCAGGGCGCCAAGTGGCCAGTGCCTGCAGCTCACCTGTGGTTTTTCCCTTTGAGCCTTTGGCCACAT
CCACCTCGAGGGGACCTGGCACCCCGGGCACACAAACCTCTGTGGTATAGGTGAGGGGTGTGAGGCCCCAGCCT
GGAGCCAGGCACTGGGTGCTGACAGGGGAACCATGAGGAGGGTGGCAGGTCTTTGCAGCTCCCGGCCAGGGTGAG
GCGGAAGTGAGCCCTCATCCTGCCACTCCTATCCTCCATTCTGCAAGAGTTTTAAGCTTGAGAGAGCTGACCAC
AGGGCCCCCGGGGAACAGGGATGGCACTTCCCTGAGCAGTCTTGGCCCCCGGCCACTGTCTCGGGGCCACCTC
TCGCCCCCTCATCTTGGTAATTAGCCAGCCTCAGATACTTCTGTGGGCCCTGAAGTGGGCTCTCAAGGTCAGACCA
AGGTTGCTGATCTCAGTCCCACTGTCTTCAGCCAGCTGAAGCTGTGGGGCTGGGCTGGCAGCCTTTATTGTCTATC
TTGCTTACCATTTTTTTTTTCTCTCTTTTTTATTCTATTTTAAAGTTTAGACCAAAAAATACAGAGTCATCCCC
TACCCCCACCCCTCTAGAGACCTCCAGCTAAAAACAGAGCCTGAGTTCAGGGACCCAAGTGGTGAGCGGCGTCT

6467/6881
FIGURE 5969B

TTTGGGGGTGAGGGAGCTTGGGTAGATGAGGCTCCTGGCTGAGCCCTCCCTGTGGTGATCCCAGCCTAAGATGGC
CCCTCTTCCCTCCTGGTGGGAGACAGAGGACTGGACCCTGGGTCTCAGGTTCCAGCAAGTCAGGCTAGGGACCTG
GGGGGAGGAGACCCATGGACTTCACCCATACTCAGTGAGGGGGCTCCTGCCGTCTGACGCCACCCCGCCCCATC
AGCACTTAAGCCACATGACACAAAGTCTGTACCGCACGGGAAATGTTACGCGCCTGGCCGTGTGCATGGCCTCC
CGGGCTGTGGGCAGCCGCATCTGTGAGGTGACTCGTGAAAGTAGGTGATTCCTTTGCAGAACTTCAGGGACTGGG
AGCAGAGGCCCCCTCACTCAACGACGTTTGTGCGACATAGTATTGTATCCACCTTAGTATTGTATCGAGCCTTTTC
TGTGTTTTTAATGAGAAAGCAGAACACTAGTTTCCTATTTAAGACTTTAAGGGTTTGTGGGGCGGGCGGGATTAA
CACAACATTTGGCTTTGTTTTCTTTTTCTTTGATTTCCACATCAGGTGTGTGCGAGTGTGTGTGTGTGGAGATG
TTAAGAGCCTCACAAGGAACTGGGTATTGGAGGCCAAGGCGGCTTACAGTTCTCTGCGTTCGTCACTTAATTC
CTGAATGTTTCAGAGAAACAGGAATCAGAAAATAGCAGATATCATGTAGGAAAGAGAGGATAAACAAGAAAAA
GAAAAAAAATAAGCTCATACCCAAATTCACAAAGCCTATTTTTTAAACCAAAGCACATTTTGAATGAGTATGGA
ACCTCCATGGGCTCAGAAAAAAGATGCTAATATATTTATCTCATTGTTTACATAAGCTTTTACAGTTTCAGACCT
CAGCAGCTGTAAGGCCAGTCCAGGGAACCCCTCCCTGCTGCTGGAAACCCCTTCTGAGTTGGCCCTGGAGTGGCTC
ACGGGCAGAGAAGGGTAGCCCTGGGGCTGGGGGAGGGATTGGAAGCCTCCCTGGAGTCACCTGAGCCCTCGTCCC
CATTCCCAGGGCCCCCTCCAAGCCAGCTGGCACCAAGAGCTTGGGCCCCGTGCTGACCAGCCCCCAAGGCCCTCT
GGCCCGACCATGCTGGTCTGACCAGCTAGCCTACGCGGGGATGGCCGTCACTTCTGGCCACAGGACCCGAGTCT
GGGCTTGGGTCCCCCTGCTGCTCTGCCCCGTGACCCTTGGGGATGGGTGATGCGAGGGTCCCCTCAAGCCAAAA
AGCCGGGACCTTTGCGCAGCTCTGTGACTCTGGTGGGTCCCCACTCCTGGGGCCCCCTAACCCACCCCAAGGCA
GCGGAAGGGGCTGACTGGGTCTGGTCTTACCAACATAGACGGTGCAAACACTCTTAACAGTGTGTTTTTGTAT
CAATATGTTTGTGAGTGTGAATGTATTTATTTCTCAGACTTGGGGCGAGTGAGCGGGTGGCAGGCCGGGCTCC
GCCACTGCATGCTCCCGCCGACCGAGCCCCAGCAAGGGCTCCTCCAGGATTGCAAAAAAAAAGGAAGAGAAAA
GATGAACCTTTAAGCAAATAAGAATCTCAGAGACTCGCAGCATAGCCATACACCTCAGCCTGTGAAATGAACGAT
CCGGACCCCTACCAACTTTCCCCACCTCAGGCAGCCCTGTGTGTTTACCGTTCATCACCCTCGGGGGCACCGGG
CCGCCCCACCACTCCCAAAATCCGTGAGTATTCAGTGGACCTCAGGCCCTGTGAGGAGTGCATCCGGGCTGGG
CCGCTGGGCAGGCTGACCCCTGCCCTCCTGCGGCCATCCTGAGTTGGGGTGAGGCCTGGGCAGCCGGAGGGCAG
GGCTCAGGGAGCAGGAGGCTGCATCCGTCCACCCCCAGGCGTGGGGGACAAAAGCCAAAGGTGCCAGGCCTTAGA
GCAGACAAGGGCTCTCAGCCCTGGCATGCCCCCTAAAGGGACCAAGGTCTCCTATTTCCAGAACCCCGTTGGG
GCAGATGTTACTGAACCTGTGAATCAGACGCCAGGAGTGAGGGCTGGGGAGGGACCTAACTGGAGCCTCAGTCTG
ACATTCCACGCCGGGGTGGGGGTGGGCATGAGCGGTGGGAAGTGGGCTGCCAGGACCCCTTCTAGGATGCC
CCGGCTTCAGTCACCCACTTTAACTTTCTACCAGGACCCCTCCCCCTACCTCACCTTGCTATTTATTGCTGTA
ATTTATTGACCTCAAAAATGCTGCATAACAGACCTCACTGGGGCAGGAGGATCCCCAGGGCTCCCACCCCTCCAC
TTGGCGGGCCCCGTGGGGCCAGGTGCTGAGGGGAGCCTCTCTACCCACCCATCACTAGCTTCCCTCTGCCCTCT
CCCACCCCGGGGGGACCCAGGTTGGGCACCTGGCTCATTCTCGCAAATACCTCGAAGGGGAGGGGGGAGGGATG
GGGTTATAGCTGTTTTGTTTAATTGGAAGTGAAGAGGGATCATGTTTTGTTTTATGCCCTTCCAGAAGGGGGG
AGGGACACCGGGATCGCACTCCTGTACTGGCCACCGCCGCTGTCACTTGTACATTGAGTTCATGTCCCTTGAGA
GTTTGTATAAATTCAGGTGAGAGCTGCAGCTACACAGCTGCCAGTGTATAGAAAAGCAATTCACCAACGACTG
ATCTCTCCATTGAGAAGTGTGCAGTCTTAAATGTACAGCGATAAGAACTGTTATTTTATGATCTTTTCATTAA
AGCTTGATTG

6468/6881

FIGURE 5970

MVSGPLALRWCAWAGRGDMGPDMEIPSHSKQLLLQLNQORTKGFLCDVIIMVENSIFRAHKNVLAASSIYFKSLV
LHDNLINLDTDMVSSTVFQQILDFIYTGKLLPSDQPAEPNFSLLTAASYLQLPELAALCRRKLKRAKPFSGSR
AGSTGMGRPPRSQRLSTASVIQARYQGLVDGRKGAHAPQELPQAKGSDDFLGGSNQDSVQGLGRAVCPAGGEA
GLGGCSSSTNGSSGGCEQELGLDLSKKSPPLPPATPGPHLTPDDAAQLSDSQHGSPPAASAPPVANSASYSELGG
TPDEPMDLEGAEDNHLSSLLEAPGGQPRKSLRHSTRKKEWKGKEPVAGSPFERREAGPKGPCPGEEGEGVGDRVFN
GILASGAGPSGPYGEPPYPCKEEEEENGKDASEDSAQSGSEGGSGHASAHMYRQEGYETVSYGDNLYVCIPCAGK
FPSSEQLNAHVETHTEEEELFIKEEGAYETGSGGAEEEEAEEDLSAPSAAYTAEP RPFKCSVCEKTYKDPATLRQHEK
THWLTRPFPCNICGKMFTRGTMTMRHMRSHLGLKPFACDECGMRFTQYRLTEHMRVHSGEKPYECQLCGGKFTQ
QRNLISHLRMHTSPS

6469/6881
FIGURE 5971

GGGCTGTCCGGCCCACTCCCCTGGGAGCGCGAGCGGTGGACCCAGGCGGCC**ATG**TCCCGCCCTCGCATGCGCCTG
GTGGTCACCGCGGACGACTTTGGTTACTGCCCCGCGACGCGATGAGGGTATCGTGGAGGCCTTTCTGGCCGGGGCT
GTGACCAGCGTGTCCCTGCTGGTCAACGGTGCGGCCACGGAGAGCGCGGCGGAGCTGGCCCCGAGGCACAGCATC
CCCACGGGCCTCCACGCCAACCTGTCCGAGGGCCGCCCGTGGGTCCGGCCCCGCCGTGGCGCCTCATCGCTGCTC
GGCCCCGAAGGCTTCTTCCTTGGCAAGATGGGATTCCGGGAGGCGGTGGCGGCCGGAGACGTGGATTTCCTCAG
GTGCGGAGCCGCGAGCTACAGGAGGATGCTCGCGAGGACCCCCAGAGCTCCGCCCCGAGGGTACTGTGAGGCCGTT
AGGAGCTGGCGGTGGATGACTTCCGCATTCAAACACTGGAGCCATCACACGGAAGCACGAGGAGGGTATCCTCGG
CAGCTACTCCCGGTGCTCAAGGTGTCTCTCGCTCGCCCTCTAGGTGCGGGAGGAGCTCGAGGCCCACTAAGCT
GCTTCCGGGAGCTGCTGGGCAGGGCCCCACGCACGCGGACGGGCACAGCACGTGCACGTGCTCCAGGTGGAC
AGACGCCTTCGTGGGCCTGAGCACTTGCGGCCGGCACATGTCCGCTCACCGCGTGTCCGGGGCCCTGGCGCGGGT
CCTGGAAGGTACCCTAGCGGGCCACACCCTGACAGCCGAGCTGATGGCGCACCCCGGCTACCCAGTGTGCCTCC
CACCGGCGGCTGCGGTGAAGGCCCCGACGCTTTCTCTTGCTCTTGGGAGCGGCTGCATGAGCTGCGCGTCCTCAC
CGCGCCACGCTGCGGGCCAGCTTGCCAGGATGGCGTGCAGCTTTGCGCCCTCGACGACCTGGACTCCAAGAG
GCCAGGGGAGGAGGTCCCCTGTGAGCCCACTCTGGAACCCTTCCTGGAACCCTCCCTACTCTGACCCCTACAGA
CAACCAAGCACTAATCCCCTTAGTACCAAGAAAGGGGAGCCAGGATTTAGTCCTGGCCCAGCCCAGAGCTGGGAC
CTGGAGCACGATCTGTTGACTTCCCTGGGTAGGACACTGCCACCTCTGGGCTCAGGTCCCTCATGCCTCCAAATGG
CATCTAGAGTTTGAGCAGCCTTCTTGGCTGCAGGCAGGCCTAGCCTGTGGCAGCGGGCTAGGGCCCCGAGAGCAT
TTGGTGCCCTCCATGTTGCAATGCAAACACCTTACCCTGCGGCAGTGGGGAGAGATGGCTATATTAATAAAA
TAACGTGTGTCTTTC

6470/6881
FIGURE 5972

MSRPRMRLVVTADDFGYCPRRDEGIVEAFLAGAVTSVSLLVNGAATESAAELARRHSIPTGLHANLSEGRPVGPA
RRGASSLLGPEGFFLGKMGFREAVAAGDVDLPQVREELEAQLSCFRELLGRAPTHADGHQHVHVLPGVCQVFAEA
LQAYGVRFTRLPLERGVGGCTWLEAPARAFACAVERDARAAGPFSRHGLRWTDAFVGLSTCGRHMSAHRVSGAL
ARVLEGTLAGHTLTAELEMAHPGYPSVPPTGGCGEGPDAFSCSWERLHELRLVLTAPTLEAQLAQDGVQLCALDDLD
SKRPGEEVPCEPTLEPFLEPSLL

6471/6881
FIGURE 5973

GCTGGAGCCGGGCCGGGGCGATGTGGAGCGCGGGCCGCGCGGGGGCTGCCTGGCCGGTGCTGTTGGGGCTGCTGC
TGGCGCTGTTAGTGCCGGGCGGTGGTGCCGCCAAGACCGGTGCGGAGCTCGTGACCTGCGGGTCGGTGCTGAAGC
TGCTCAATACGCACCACCGCGTGCGGCTGCACTCGCACGACATCAAATACGGATCCGGCAGCGGCCAGCAATCGG
TGACCGGCGTAGAGGCGTCGGACGACGCGAATAGCTACTGGCGGATCCGCGGCGGCTCGGAGGGCGGGTGCCCGT
GCGGGTCCCCGGTGCGCTGCGGGCAGGCGGTGAGGCTCACGCATGTGCTTACGGGCAAGAACCTGCACACGCACC
ACTTCCCGTCGCCGCTGTCCAACAACCAGGAGGTGAGTGCCTTTGGGGAAGACGGCGAGGGCGACGACCTGGACC
TATGGACAGTGCGCTGCTCTGGACAGCACTGGGAGCGTGAGGCTGCTGTGCGCTTACAGCATGTGGGCACCTCTG
TGTTCCCTGTCAGTCACGGGTGAGCAGTATGGAAGCCCCATCCGTGGGCAGCATGAGGTCCACGGCATGCCCAGTG
CCAACACGCACAATACGTGGAAGGCCATGGAAGGCATCTTCATCAAGCCTAGTGTGGAGCCCTCTGCAGGTCACG
ATGAACTCTGAAGTGTGTGGATGGATGGGTGGATGGAGGGTGGCAGGTGGGGCGTCTGCAGGGCCACTCTTGGCAG
AGACTTTGGGTTTGTAGGGGTCTCAAGTGCCTTTGTGATTAAAGAATGTTGGTCTATGA

6472/6881
FIGURE 5974

MWSAGRGGAAPVLLGLLLALLVPGGGAAKTGAELVTCGSVLKLLNTHHRVRLHSHDIKYSGSGGQQSVTGVEAS
DDANSYWRIRGGSEGGCPCGSPVRCGQAVRLTHVLTGKNLHTHHFSPLSNNQEVSAFGEDGEGDDLDLWTVRCS
GQHWEREAAVRLQHVGTSVFLSVTGEQYGSPIRGQHEVHGMP SANTHNTWKAMEGIFIKPSVEPSAGHDEL

6473/6881
FIGURE 5975

GCTTCAGGGTACAGCTCCCCGCAGCCAGAAGCCGGGCTGCAGCGCCTCAGCACCGCTCCGGGACACCCACCC
GCTTCCCAGGCGTGACCTGTCAACAGCAACTTCGCGGTGTGGTGAACCTCTCTGAGGAAAAACCATTTTGATTATT
ACTCTCAGACGTGCGTGGCAACAAGTGACTGAGACCTAGAAATCCAAGCGTTGGAGGTCTTGAGGCCAGCCTAAG
TCGCTTCAAAATGGAAACGAAGCGTTTGTGGGGTTCCATTAGAGCCGATACATCAGCATGAGTGTGTGGACAAG
CCCACGGAGACTTGTGGAGCTGGCAGGGCAGAGCCTGCTGAAGGATGAGGCCCTGGCCATTGCCGCCCTGGAGTT
GCTGCCCAGGGAGCTCTTCCCGCCACTCTTCATGGCAGCCTTTGACGGGAGACACAGCCAGACCCTGAAGGCAAT
GGTGCAGGCCTGGCCCTTACCTGCCTCCCTCTGGGAGTGTGATGAAGGGACAACATCTTACCTGGAGACCTT
CAAAGCTGTGCTTGATGGACTTGATGTGCTCCTTGGCCAGGAGGTTGCCCCAGGAGGTGGAAACTTCAAGTGCT
GGATTTACGGAAGAACTCTCATCAGGACTTCTGGACTGTATGGTCTGGAAACAGGGCCAGTCTGTACTCATTTC
AGAGCCAGAAGCAGCTCAGCCCATGACAAAGAAGCGAAAAGTAGATGGTTTGAGCACAGAGGCAGAGCAGCCCTT
CATTCAGTAGAGGTGCTCGTAGACCTGTTCTCAAGGAAGGTGCCTGTGATGAATTGTTCTCTACCTCATTGA
GAAAGTGAAGCGAAAGAAAAATGTACTACGCCTGTGCTGTAAGAAGCTGAAGATTTTGAATGCCCATGCAGGA
TATCAAGATGATCCTGAAAATGGTGCAGCTGGACTCTATTGAAGATTTGGAAGTGACTTGACCTGGAAGCTACC
CACCTTGGCGAAATTTTCTCCTTACCTGGGCCAGATGATTAATCTGCGTAGACTCCTCCTCTCCACATCCATGC
ATCTTCCTACATTTCCCCGGAGAAGGAAGAGCAGTATATCGCCAGTTACCTCTCAGTTCCTCAGTCTGCAGTG
CCTGCAGGCTCTCTATGTGGACTCTTTATTTTCTTAGAGGCCGCTGGATCAGTTGCTCAGGCACGTGATGAA
CCCCTTGGAAACCCCTCTCAATAACTGCGCGCTTTCGGAAGGGGATGTGATGCATCTGTCCAGAGTCCAG
CGTCAGTCAGCTAAGTGTCTGAGTCTAAGTGGGGTCATGCTGACCGATGTAAGTCCCGAGCCCCCTCAAGCTCT
GCTGGAGAGAGCCTCTGCCACCCTCCAGGACCTGGTCTTTGATGAGTGTGGGATCACGGATGATCAGCTCCTTGC
CCTCCTGCCTTCCCTGAGCCACTGCTCCCAGCTTACAACCTTAAGCTTCTACGGGAATTCCATCTCCATATCTGC
CTTGCAGAGTCTCCTGCAGCACCTCATCGGGCTGAGCAATCTGACCCACGTGCTGTATCCTGTCCCCCTGGAGAG
TTATGAGGACATCCATGGTACCCTCCACCTGGAGAGGCTTGCCTATCTGCATGCCAGGCTCAGGGAGTTGCTGTG
TGAGTTGGGGCGGGCCAGCATGGTCTGGCTTAGTGCCAACCCCTGTCTCACTGTGGGGACAGAACCTTCTATGA
CCCGGAGCCCATCCTGTGCCCCGTGTTTCATGCCTAACTAGCTGGGTGCACATATCAAATGCTTCATTCTGCATAC
TTGGACACTAAAGCCAGGATGTGCATGCATCTTGAAGCAACAAAGCAGCCACAGTTTCAGACAAATGTTTCAGTGT
GAGTGAGGAAAACATGTTTCAGTGAGGAAAAAACATTAGACAAATGTTTCAGTGAGGAAAAAAGGGGAAGTTGGG
GATAGGCAGATGTTGACTTGAGGAGTTAATGTGATCTTTGGGGAGATACATCTTATAGAGTTAGAAATAGAATCT
GAATTTCTAAAGGGAGATTCTGGCTTGGGAAGTACATGTAGGAGTTAATCCCTGTGTAGACTGTTGTAAAGAAAC
TGTTGAAAATAAAGAGAAGCAATGTGAAGCAAAAAAAAAAAAAAAAAAAAA

6474/6881
FIGURE 5976

MERRRLWGSIQSRYISMSVWTSPPRLVELAGQSLLKDEALAIAALELLPRELFPPLFMAAFDGRHSQTLKAMVQA
WPFTCLPLGVLMKGQHLHLETFKAVLDGLDVLLAQEVRRRWKLQVLDLRKNSHQDFWTVWSGNRASLYSFPEPE
AAQPMTKKRKVDGLSTEAEQPFIPVEVLVDLFLKEGACDELFSLIEKVKRKKNVLRLCCKKLKIFAMPMQDIKM
ILKMVQLDSIEDLEVTCTWKLP TLAKFSPYLGQMINLRRLLSHIHASSYISPEKEEQYIAQFTSQFLSLQCLQA
LYVDSLFFLRGRLDQLLRHVMNPLETSLITNCRLSEGDVMHLSQSPSVSQLSVLSLSGVMLTDVSPEPLQALLER
ASATLQDLVFDECGITDDQLLALLPSLSHCSQLTTLSFYGNSSISISALQSLLOHLIGLSNLTHVLYPVPLESYED
IHGTLHLERLAYLHARLRELLCELGRPSMVWLSANPCPHCGDRTFYDPEPILCPCFMPN

6475/6881
FIGURE 5977

AACGCCAGCGCCTGCGCACTGAGGGCGGCCTGGTCGTCGTCTGCGGCGGCGGCGGGCTGAGGAGCCCGGCTGA
GGCGCCAGTACCCGGCCCCGGTCCGCATTTTCGCCTTCCGGCTTCGGTTTCCCTCGGCCCAGCACGCCCCGGCCCCG
CCCCAGCCCTCCTGATCCCTCGCAGCCCGGCTCCGGCCGCCCGCCTCTGCCGCCGCAATGATGATGATGGCGCTG
AGCAAGACCTTCGGGCAGAAGCCCGTGAAGTTCCAGCTGGAGGACGACGGCGAGTTCTACATGATCGGCTCCGAG
GTGGGAAACTACCTCCGTATGTTCCGAGGTTCTCTGTACAAGAGATAACCCCTCACTCTGGAGGCGACTAGCCACT
GTGGAAGAGAGGAAGAAAATAGTTGCATCGTCACATGATCACGGATAACAGACTCTAGCCACCAGTGTGACCCTG
TTAAAAGCCTCGGAAGTGGAAGAGATTCTGGATGGCAACGATGAGAAGTACAAGGCTGTGTCCATCAGCACAGAG
CCCCCACCTACCTCAGGGAACAGAAGGCCAAGAGGAACAGCCAGTGGGTACCCACCCTGCCCAACAGCTCCAC
CACTTAGATGCCGTGCCATGCTCCACAACCATCAACAGGAACCGCATGGGCCGAGACAAGAAGAGAACCTTCCCC
CTTTGGTGTGGATGCATCGCTGCACTCACCTCCGTGCTGATTCCGCCTTAGTTCTCCACTTTGATGACCATGAC
CCAGCTGTGATCCATGAGAACGCATCTCAGCCCCAGGTGCTGGTCCCCATCCGGCTGGACATGGAGATCGATGGG
CAGAAGCTGCGAGACGCCTTACCTGGAACATGAATGAGAAGTTGATGACGCCTGAGATGTTTTTCAGAAATCCTC
TGTGACGATCTGGATTTGAACCCGCTGACGTTTGTGCCAGCCATCGCCTCTGCCATCAGACAGCAGATCGAGTCC
TACCCACGGACAGCATCCTGGAGGACCAGTCAGACCAGCGGTCATCATCAAGCTGAACATCCATGTGGGAAAC
ATTTCCCTGGTGGACCAAGTTTGAAGTGGGACATGTCAGAGAAGGAGAACTCACCAGAGAAGTTTGCCCTGAAGCTG
TGCTCGGAGCTGGGGTTGGGCGGGGAGTTTGTACCAACCATCGCATACAGCATCCGGGGACAGCTGAGCTGGCAT
CAGAAGACCTACGCCTTCAGCGAGAACCCTCTGCCCCACAGTGGAGATTGCCATCCGGAACACGGGCGATGCGGAC
CAGTGGTGGCCACTGCTGGAGACTCTGACAGACGCTGAGATGGAGAAGAAGATCCGCGACCAGGACAGGAACACG
AGGCGGATGAGGCGTCTTGCCAACACGGCCCCGGCCTGGTAAACAGCCCATCAGCACACGGCTCCCACGGAGCAT
CTCAGAAGATTGGGCCGCTCTCCTCCATCTTCTGGCAAGGACAGAGGCGAGGGGACAGCCCAGCGCCATCCTGA
GGATCGGGTGGGGGTGGAGTGGGGGCTTCCAGGTGGCCCTTCCCGGCACACATTCCATTTGTTGAGCCCCAGTCC
TGCCCCCACCCACCCCTCCCTACCCCTCCCCAGTCTCTGGGGTCAGGAAGAAACCTTATTTTAGGTTGTGTTTT
GTTTTTGTATAGGAGCCCCAGGCAGGGCTAGTAACAGTTTTTTAAATAAAAGGCAACAGGTCATGTTCAATTTCTT
C

6476/6881

FIGURE 5978

MMMALSKTFGQKPVKFQLEDDGEFYMGSEVGNILRMFRGSLYKRYPSLWRRLATVEERKKIVASSHDHGYTTL
ATSVTLKASEVEEILDGNDEKYKAVSISTEPPTYLREQAKRNSQWVPTLPNSSHHLDVPCSTTINRNRMG
KKRTFPLWCGCIAALTLRADSALVLHFDDHDPVIAHENASQPEVLVPIRLDMEIDGQKLDAFTWNMNEKLMTP
MFSEILCDDLDLNPLTFVPAIASAIRQQIESYPTDSILEDQSDQRVIIKLNIHVGNISLVDQFEWDMSEKENS
PEKFALKLCSELGLGGEFVTTIAYSIRGQLSWHQKTYAFSENPLPTVEIAIRNTGDADQWCPLLETLTDAEMEKKIR
DQDRNTRMRRLANTAPAW

6477/6881
FIGURE 5979

ACCACAGTGGTGTCCGAGAAGTCAGGCACGTAGCTCAGCGGCGGCCGCGGCGCGTGCGTCTGTGCCTCTGCGCGG
GTCTCCTGGTCCTTCTGCCATCATGCCGATGTTTCATCGTAAACACCAACGTGCCCCGCGCCTCCGTGCCGGACGG
GTTCTCTCCGAGCTCAGCCAGCAGCTGGCGCAGGCCACCGGCAAGCCCCCAGTACATCGCGGTGCACGTGGT
CCCGGACCAGCTCATGGCCTTCGGCGGCTCCAGCGAGCCGTGCGCGCTCTGCAGCCTGCACAGCATCGGCAAGAT
CGGCGGCGCGCAGAACCGCTCCTACAGCAAGCTGCTGTGCGGCCTGCTGGCCGAGCGCCTGCGCATCAGCCCGGA
CAGGGTCTACATCAACTATTACGACATGAACGCGGCCAATGTGGGCTGGAACAACCTCCACCTTCGCCTAAGAGCC
GCAGGGACCCACGCTGTCTGCGCTGGCTCCACCCGGGAACCCGCCGCACGCTGTGTTCTAGGCCCCGCCACCCCA
ACCTTCTGGTGGGGAGAAATAAACGGTTTAGAGACT

6478/6881
FIGURE 5980

MPMFIVNTNVPRASVPDGFELSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSIGKIGGAQNRS
YSKLLCGLLAERLRISPDRVYINYDMNAANVGWNNSTFA

6479/6881
FIGURE 5981A

TTGGGCGAGAGGGTGGGGCCACTCAACGCTGAGGCGGCGAATGGCCGGAGCAGACTTAAATCAAGAGGCTGGGGA
CCTCTAAGATCAAAGTTTGGGGCGGGGCGCTAAGGAGGGGGCGGGGCTCCAGATTTCAGACCTGGAAGGGCTGGG
GCGGCGCTTGGGGCGGGCCAGCCGCCGCTCCCGTTCTCTCCTCCGCGAGCGGGCGGGTGGCGGAGAAGGAACTC
GACACGCACCGACCGCCCTCCCGCCCCAGCCGAAGCGGAAGCTGTAGCCCGCTCTGGGCGGGGGCCATGGGCGCC
CCGCGCCCGCCCGGGTTCATGAGGACGGAGGCGGAGGCAGCGGGGCGCCGCTCGAGCCCGGGGACTTTGTGCAACT
GCCTGTGCGCGTTCATCCAGCAGCTCTACCACTGGGACTGTGGCCTGGCCTGCTCCAGGATGGTGTGCTGCAGGTACC
TGGGCCAGCTGGACGACAGTGAGTTTGAGAGAGCCCTGCAGAAGCTGCAGCTGACCAGGAGCATCTGGACCATCG
ACCTGGCCTACCTGATGCACCACTTTGGCGTGAGGCACCGCTTCTGTACCCAGACCCTGGGTGTGACAAGGGCT
ACAAGAACCAGTCTTCTACAGGAAGCACTTTGACACAGAAGAGACCCGGGTGAATCAGCTGTTTGACAAGCAA
AGGCCTGCAAGGTGCTGGTGGAGAAATGCACAGTGAGTGTGAAGGACATCCAGGCGCACCTGGCTCAGGGCCATG
TGGCCATCGTGCTGGTGAATCGGGGGTGTGCTGCACTGTGACCTGTGCTCCAGCCCTGTCAAGTACTGCTGCTTCA
CCCCAGTGGCCACCACTGCTTCTGCGCACTCCTGACTACCAGGGCCACTTCATCGTGCTGCGTGGCTACAACC
GGGCCACTGGCTGCATCTTCTACAACAACCCAGCCTATGCCGACCCAGGAATGTGCAGCACCAGCATCAGTAACT
TTGAGGAGGCCAGAACCAGCTATGGCACAGATGAGGACATCCTCTTTGTCTACTTTGGACAGCTGACAGCAGGAGC
CTGGTGCCTAGGCCCTCGGACCCCATCCCCACCCAGCCGGGGCCGCTCAGGATGCCCTGGCCCAGGCTTGGG
GCTGCTGGGGTTGGAATGTGGAATGCAGCCTCAGCCCATCTGGCAGAGTCCAGGAACCTCGGAGACTGGCACAG
CTGCTTTGTCTGCCAGTGCCGTGTGTTGTCTATGTCACTCACCCCAAGCACCTGCTGGCTGCTGGAAGCATAACCC
AAGACCCCAAGCCTTGACTCCAGCTGCGCCACAGGAAGTCCAGTCCCGACAGTGCCCTTGTGCTTTGAGCCA
GATCCATGGCAATGGTCTCCCCACAGACCCGAGGACTGAGCCTGGAGAGAGAAGTTGCTTGACGGATGCCACTTG
TCAGGACAGTATGTGAGTGTCTGGAGACAGCATAGCTGACCCCAATCCCCAGGGCTGAGGACCCCTCCAGGCCC
CTCTCTCCTGGAAGTGCTGCATATGCCCTGTGCCAGTGGTTGATGATACCACCACCCTGCCTACCCATGGG
CCCAAGTTTCTGTGGCTCATTACAGGGCATCTGACCCCTGCCACCCAGCATAGACACACCTCACAGCTGCCCTGC
CATGCAGAGCCCTGGCCGCTGGAGACTCTTAAAGCCCCACAGCCCTCCAGGTCTCCAGCTCTGTCTAGATGGAG
GGCTCTCGGGCCTAGATCCCACTGGTAGGCCTCGTGGCTGGCAGCAGTGCTCTGGGAATAAACAGCTGCCCTAGC
CCCAGAGGGATCCCTGCACCCAGGAGGCCTCCTGACACCAGCCAAATCCTGACAGCAGGGTCTGCCCTCTTGAG
TGTGGGGAGCCCTAGTCCTTTAAAGTTGGCTGCTAAGGCCTGTGCTCCAAAGCAACGGGCTGGGGCAGCCTGCA
GCTGCCACCCAACTGGTCTTACACACAGATTGCACAGGATACTGGGTCTTGTCTATCTTGATGGAGAAGAGGG
GTTCTGCCCAGGATCTTACAACACAGCAAGTAGCATAGAGCTCTTCTCTCTCTTTTGGGGAGGTGGGGT
CAGGGGTTGTTTCTTTGAGATTTAAGTTTTATTTTGTAGGGGTAATCACCTTCAAGTAAACAGTAATAGCAAG
AGTGAAGGTACTTTGGAACCACTAACACCTCTGCACAGGGCAGTTAGCCAGCTCAAGTTCTTTTTTTCAGAGAAAGG
GACTTGGCCAGTGGTTTAAGTACCTGCCCTTACCTCTCAGACGAGGCAGCTGACGAGGCAGCTGGCCCAGTCT
TGGGAGTCTGCTCAGGACAGTGGTGGAGCTGGGTCTTGAACCCAGTCTGCACCTAAAAAATAAGGAAATGGA
TTTTTTTTTTTTTTTTTGGAGACGGAGACTCACTCTGTTGCCAGACTGGAGTGCAGTGGCACGATCTTGGCTTAC
TACAACCTCCGCTCCTGGGTTCAAGCGATCCTCCTGCCTCAGCCCCCACTAGCTGGGACTACAGGCACATGCC
ACCATGCCCGGCTAATTTTTTTGTATTTTGTAGTAGAGACCAGGCTTCGCCATGTTGGCCAGGCTGGTCTCGAACC
CCTGAGCTCAGGTGATCCACCTGCCTCGGCCTCCCAAAGTGGGAAATGGGTCATTTTTCAAAGGGGCAACAGTGAT
ACCATCCCTGCACTCCTGGGTCTGCTCTTCCAATGCCCAAGGCATGGCATGGTGGCAGCTGTGCCCCCGCCAT
TGCTTTGGAGCACAGATGACTCTGGGGGCGAGAGGTGGGCTCTGTTTAGGAGGGCAGTGAGACCACCCAGCCAAAT
TGCTTCTCAACCCTAGACAAAGCCTTTGGCCAAGAGGGAGGTGCTGTTAGTTGGGCAGCCCTTCTGGGTTTCAGA
GACCGGTGTTGGCTCTAGACTGGTCTCATCTCCATTGCCCTTAATGCCAGGTGGCCAGGAGTACCCATGCACAGC
AGCTGTGGGGTGTGGGCATCTTACAGGTGGTGTCTGGTAAAATTGTTAGAATAGCTGTATGAAGGAAACAGTG
GAGGAAATGAAGTTTTTTCAGGATGGTGGGATGTGATTTAGACAGTGACATGCTGTTAGGGCTGTCACTAGGGAGT
GGCCTTATGGAGGGTGGTAACAGCACCTCAGTCCAGCCAAATGTTTAGAAACACTCAGTCTCTGGTCCCAGAG
GATGGCTTCTCAGGGCATGCCACAAGTTAAAGGTCACCTTCTGAAAGATGAATGAGAAAGCTGCCATTCTCAA
GACTCATCTGCCTAGGGAGGGTCACAGAGGCAGGATGTAAGACACACTGTGTTGCATTCTTGACAAGTCATGAA
AATGGAGCCAGAGAGCCTGGACATCAGGGACTTTTGGCCACAGCACATGACACCGACAGCTGCCAGCCTGTTCA
CATGCTGGGGACCAGCACAGCACCTGAAGCCATGTGGGACAGTTGGGCTTTGTTCACTTAGCCACGGGGATGAA
AGGGATCTTTTGCATTGCAGAGATTTTATATATATTTTGTGTTGTAATGAGCCATTCTCAATAAACATTATTCTCA

6480/6881
FIGURE 5981B

CTGC

6481/6881
FIGURE 5982

MHHFGVRHRECTQTLGVDKGYKNQSFYRKHFDTEETRVNQLFAQAKACKVLVEKCTVSVKDIQAHLAQGHVAIVL
VNSGVLHCDLCSSPVKYCCFTPSGHHCF CRTPDYQGHFIVLRGYNRATGCIFYNNPAYADPGMCSTSI SNFEAR
TSYGTDEDILFVYLD S

6482/6881
FIGURE 5983

TCTTGA CTCACGCCTTCGCCGTAGCATCTTTTCGCAGCGGACCGAAGAGAAGAAAAGTAGGCCAGAGCCGA ACTCT
CTTCCTGCCAAGATGTCTATTGGTGTGCCGATTAAAGTACTGCATGAGGCCGAGGGCCACATTGTGACATGTGAG
ACGAACACCGGTGAGGTATATCGGGGGAAGCTCATTGAAGCAGAGGACAACATGAACTGCCAGATGTCCAACATC
ACAGTCACATACAGAGATGGCCGAGTGGCACAGCTGGAGCAGGTATACATCCGTGGCAGCAAAATCCGCTTTCTG
ATTTTGCCTGACATGCTGAAGAACGCACCCATGTTAAAGAGCATGAAAAATAAAAACCAAGGCTCAGGGGCTGGC
CGAGGAAAAGCTGCCATTCTCAAGGCCCAAGTGGCCGCAAGAGGAAGAGGACGTGGAATGGGACGTGGAAACATC
TTTCAAAGCGAAGATAAATTTTCTAAGTTGAACAGAACTTTGTCTTTTTTCTTTCAGGTTATCTGAGTTCATTG
GAGTGGGTGCTTGTGCATATATCTAGGTATCTTTTGCCATCTTCTCTTTAGATCAGGGGAAATGTTTAAGCTAA
ATAAATCTGGGGGGTTTTTTGTTCTG

6483/6881
FIGURE 5984

MSIGVPIKVLHEAEGHIVTCETNTGEVYRGKLI EAEDNMNCQMSNITV TYRDGRVAQLEQVYIRGSKIRFLILPD
MLKNAPMLKSMKNKNQSGAGRGKAA ILKAQVAARGRGRGMGRGNIFQKRR

6484/6881
FIGURE 5985

CATTGCAGTACACTGAGCTCCACAGAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTGTGCC
TCGCTGAGGAAAAATAACTAAACATGAGCAAAGGAGATCCTAAGAAAGCTGAGAGGCAAAATGTCATCACATGCAT
TTTTTGGGCAAACCTTGTCGGGAGGCGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACCTCTCAGAGTTTTCTA
AGAAAGTGCCCATACGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCAAGGAT
CCGAATGCACCCAAGAGGACTCCTTCGGCCTTCTTCTGTTCTGCTCTGCGTATCGCCCAAAATCAAAGGAGAA
CATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCCGCAGATGACAAG
CAGCCTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGA
AAGCCTGATGCAGCAAAAAGGGAGTTGTCAAGGCTGAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAG
GAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGATGAAGAAGATGATGAATAAGTTGGTTCTAGC
GCAGTTTTTTTTTCTTGTCTATAAAGCATTTAACCCCCCTGTACACAACCTCACTCCTTTTAAAGAAAAAAATTG
AAATGTAAGGCTGTGTAAGATTTGTTTTTAACTGTACAGTGCTTTTTTTGTATAGTTAACACACTACCGAATG
TGTCTTTAGATAGCCCTGTCCTGATGGTATTTTCAATAGCCGCTAACCTTGCCTGGTACAGTATGGGGGCTGTAA
ATTGGCATGGAAATTTAAAGCGGGTTCTTGTGGTGCACAGCACAAATTAGTTATATATGGGGATGATAGTTTTT
TCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTATCTGTAACTGAATACCACTCTGTAATTGCAA
AAAGAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTATTAG

6485/6881

FIGURE 5986

ATGGGTGCATACAAGTACATCCTGGAGCTATGGAGAAAGAAGCAGTCTGATGTCATGCGCTTTCTTCTGAGGGTC
CGCTGCTGGCAGTACCGCCAGCTATCTGCTCTCCACAGGGCTCCCCGCCCCACCCGGCCTGATAAAGTGCACCGA
CTGGGCTACAAACAAGGCCAAGCAAGTGACAGTGAGTCGTGTGGACCTGGTAAAATCACCAACTTCTCTGATTCT
CCTTATCTTGAAAACAGGGATGATAATGCTCCCCCTACCCACAGATGCTGTGACGTTCCAAGCAGACATCTAA

6486/6881
FIGURE 5987

GGCGCTGGGCGGCTGCGGCGCGGGTGC GCGGTGCGTAGTCTGGAGCTATGGTGGTGGTGGCAGCCGCGCCGAAC
CCGGCCGACGGGACCCCTAAAGTTCTGCTTCTGTGCGGGCAGCCCCGCTCCGCGCGCGGAGCCCCGGCCGGCCAG
GCCCTGCCGCTCATGGTGCCAGCCCAGAGAGGGGCCAGCCCCGAGGCAGCGAGCGGGGGGCTGCCCCAGGCGCGC
AAGCGACAGCGCCTCACGCACCTGAGCCCCGAGGAGAAGGCGCTGAGGAGGAACTGAAAAACAGAGTAGCAGCT
CAGACTGCCAGAGATCGAAAGAAGGCTCGAATGAGTGAGCTGGAACAGCAAGTGGTAGATTTAGAAGAAGAGAAC
CAAAAACTTTTGCTAGAAAATCAGCTTTTACGAGAGAAAACTCATGGCCTTGTAGTTGAGAACCAGGAGTTAAGA
CAGCGCTTGGGGATGGATGCCCTGGTTGCTGAAGAGGAGGCGGAAGCCAAGGGGAATGAAGTGAGGCCAGTGGCC
GGGTCTGCTGAGTCCGCAGCACTCAGACTACGTGCACCTCTGCAGCAGGTGCAGGCCCAGTTGTACCCCTCCAG
AACATCTCCCCATGGATTCTGGCGGTATTGACTCTTCAGATTGAGAGTCTGATATCCTGTTGGGCATTCTGGACA
ACTTGAGCCAGTCATGTTCTTCAAATGCCCTTCCCCAGAGCCTGCCAGCCTGGAGGAGCTCCCAGAGGTCTACC
CAGAAGGACCCAGTTCCTTACCAGCCTCCCTTTCTCTGTGTCAGTGGGGACGTCATCAGCCAAGCTGGAAGCCATTA
ATGAACTAATTCGTTTTGACCACATATATACCAAGCCCCCTAGTCTTAGAGATACCCTCTGAGACAGAGAGCCAAG
CTAATGTGGTAGTGAAAATCGAGGAAGCACCTCTCAGCCCCCTCAGAGAATGATCACCTGAATTCATTGTCTCAG
TGAAGGAAGAACCTGTAGAAGATGACCTCGTTCCGGAGCTGGGTATCTCAAATCTGCTTTTCATCCAGCCACTGCC
CAAAGCCATCTTCCTGCCTACTGGATGCTTACAGTGACTGTGGATACGGGGGTTCCTTTTCCCCATTGAGTGACA
TGTCTCTCTGCTTGGTGTAACCATTTCTGGGAGGACACTTTTGCCAATGAACCTTTTCCCCAGCTGATTAGTG
TCTAAGGAATGATCCAATACTGTTGCCCTTTTCTTACTATTACACTGCCTGGAGGATAGCAGAGAAGCCTGTC
TGTAATTCATTCAAAAAGCCAAAATAGAGAGTATACAGTCTAGAGAATTCCTCTATTTGTTTCTGATCTCATAGA
TGACCCCCAGGTATTGTCTTTTGACATCCAGCAGTCCAAGGTATTGAGACATATTACTGGAAGTAAGAAATATTA
CTATAATTGAGAACTACAGCTTTTAAGATTGTACTTTTATCTTAAAAGGGTGGTAGTTTTCCCTAAAATACTTAT
TATGTAAGGGTCATTAGACAAATGTCTTGAAGTAGACATGGAATTTATGAATGGTTCCTTTATCATTTCTCTTCCC
CCTTTTTGGCATCCTGGCTTGCTCCAGTTTTAGGTCTTTTAGTTTGCTTCTGTAAGCAACGGGAACACCTGCTG
AGGGGGCTCTTTCCCTCATGTATACTTCAAGTAAGATCAAGAATCTTTTGTGAAATTATAGAAATTTACTATGTA
AATGCTTGATGGAATTTTTTCTGCTAGTGTAGCTTCTGAAAGGTGCTTTCTCCATTTATTTAAACTACCCATG
CAATTAAGGTACAATGCAAAAAAAAAAAAAAAAAA

6487/6881
FIGURE 5988

MVVVAAAPNPADGTPKVLLLSGQPASAAGAPAGQALPLMVPAQRGASPEAASGGLPQARKRQRLTHLSPEEKALR
RKLKNRVAAQTARDRKKARMSELEQQVVDLEENQKLLLENQLLREKTHGLVVENQELRQRLGMDALVAEEEEAEA
KGNEVRPVAGSAESAALRLRAPLQQVQAQLSPLQNI SPWILAVLTLQIQSLISCWAFWTTWTQSCSSNALPQSLP
AWRSSQRSTQKDPVPYQPPFLCQWGRHQPSWKPLMN

6488/6881
FIGURE 5989

AGAGGGAGACGGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGSCGTCCACGGATTACAGTACCTATAGCCA
AGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCAGCCCACTCAAGGATATGCACAGACCACCCAGGCATA
TGGGCAACAAAGCTATGGAACCTATGGACAGCCCACTGATGTCAGCTATACCCAGGCTCAGACCACTGCAACCTA
TGGGCAGACCGCCTATGCAACTTCTTATGGACAGCCTCCCACTGGTTATACTACTCCAAGTCCCCCAGGCATA
CAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCACCACTGCTACAGTCAACCAACCCAGGCCTC
CTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGCAGCCACTGCACC
TACAAGACCGCAGGATGGAAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAAGCC
CAGCCTAGGATATGGACAGAGTAACTACAGTTATCCCCAGGTACCTGGGAGCTACCCCATGCAGCCAGTCACTGC
ACCTCCATCCTACCCTCCTACCAGCTATTCTCTACACAGCCGACTAGTTATGATCAGAGCAGTTACTCTCAGCA
GAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTATGGGCAGCAGCC
TCCCCTAGTTACCCACCCCAAAGTGGATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACAGAGCAGCAGCTA
CGGGCAGCAGAGTTTATTCCGACAGGACCACCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTTC
CGGACCAGGAGAGAACCAGGAGCATGAGTGGCCCTGATAACCGGGCAGGGGAAGAGGGGGATTTGATCGTGGAGG
CATGAGCAGAGGTGGGCGGGGAGGAGGACGCGGTGGAATGGGCAGCGCTGGAGAGCGAGGTGGCTTCAATAAGCC
TGGTGGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCCTCCTGTAGATCCAGATGAAGACTCTGACAACAG
TGCAATTTATGTACAAGGATTAAATGACAGTGTGACTCTAGATGATCTGGCAGACTTCTTTAAGCAGTGTGGGGT
TGTTAAGATGAACAAGAGAAGTGGGCAACCCATGATCCACATCTACCTGGACAAGGAAACAGGAAAGCCCAAAGG
CGATGCCACAGTGTCTATGAAGACCCACCCACTGCCAAGGCTGCCGTGGAATGGTTTGTATGGGAAAGATTTTCA
AGGGAGCAAAGTTAAAGTCTCCCTTGCTCGGAAGAAGCCTCCAATGAACAGTATGCGGGGTGGTCTGCCACCCCG
TGAGGGCAGAGGCATGCCACCACCACTCCGTGGAGGTCCAGGAGGCCAGGAGGTCTGGGGGACCCATGGGTCCG
CATGGGAGGCCGTGGAGGAGATAGAGGAGGCTTCCCTCCAAGAGGACCCCGGGGTTCCTGAGGGAACCCCTCTGG
AGGAGGAAACGTCCAGCACCAGCTGGAGACTGGCAGTGTCCCAATCCGGGTGTGGAAACAGAACTTCGCCTG
GAGAACAGAGTGCAACCAAGTGTAAGGCCCCAAAGCCTGAAGGCTTCCCTCCCGCCACCCTTTCCGCCCCCGGGTGG
TGATCGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCCTCATGGATCGTGGTGGTCCCGGTGG
AATGTTTCAAGAGGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGGCATGGACCGAGGTGGCTTTGG
TGGAGGAAGACGAGGTGGCCCTGGGGGGCCCCCTGGACCTTTGATGGAACAGATGGGAGGAAGAAGAGGAGGACG
TGGAGGACCTGGAAAAATGGATAAAGGCGAGCACCGTCAGGAGCGCAGAGATCGGCCCTACTAGATGTCAGAGACC
CCGCAGAGCTGCATTGACTACCAGATTTATTTTTTAAACCAGAAAATGTTTTAAATTTATAATTCCATATTTATA
ATGTTGGCCACAACATTATGATTATTCCTTGCTGTACTTTAGTATTTTTTACCATTTGTGAAGAAACATTAAAA
CAAGTTAAATGGTAGTGTGCGGAGTTTTTTTTTCTTCTCTTTTAAAAATGGTTGTTTAAGACTTTAACAATGG
GAACCCCTTGTGAGCATGCTCAGTATCATTGTGGAGAACCAAGAGGGCCTCTTAAGTGAACAATGTTTCATGGTT
GTGATGTTTTTTTTTTTTTTTTTAAATAAAATTCCAAATGTTTAATAAAAAAAAAAAAAAAAAAAAAA

6489/6881

FIGURE 5990

MASTDYSTYSQAAAQQGYSAYTAQPTQGYAQTTQAYGQQSYGTYGQPTDVSYTQAQTTATYGQTAYATSYGQPPT
GYTTPTAPQAYSQPVQGYGTGAYDTTATVTTTQASYAAQSAYGTQPAYPAYGQPPAATAPTRPDGKNKPTETSQ
PQSSTGGYNQPSLGYGQSNYSYPQVPGSYPMQPVTAAPPSPPTSYSSTQPTSYDQSSYSQQNTYGQPSYGGQSS
YGQQSSYGQQPPTSYPPQTGSYSQAPSQYSQQSSSYGQQSSFRQDHPSSMGVYGQESGGFSGPGENRSMSPDNR
GRGRGGFDRGMSRGGRRGGRRGGMGSAGERGGFNKPGGPMDEGPDLDLGPPVDPDESDNSAIYVQGLNDSVTLD
DLADFFKQCGVVKMNKRTGQPMIHIYLDKETGKPKGDATVSYEDPPTAKAAVEWFDGKDFQGSKLKVS LARKKPP
MNSMRGGLPPREGRGMPPPLRGGPGGPGGPGGPMGRMGRRGGDRGGFPFRGPRGSRGNPSGGGNVQHRAGDWQCP
NPGCGNQNFARWTECNQCKAPKPEGFLPPFPFPFGGDRGRGGPGGMRGGRGGLMDRGGPGGMFRGGRRGGDRGGFR
GGRGMDRGGFGGRRGGPGGPPGPLMEQMGGRRGGRRGGPGKMDKGEHRQERRDRPY

6490/6881
FIGURE 5991

GGACGCATAGAGCTGCGGGCTCGGGCGGGCGCCTCCCTGCGGGCGGCCCCGGCTCCGGCCCCGCTGGGGCAAT
GCTCCCCGGGGCCGCGGGATGAGCCAGCGATCCTGAACTGTGTTCTGCCCACAGTGACTCGGCCGGTCCGGGCA
TGGCAGACCCAGTGGCGGGCATCGCGGGTTCGGCGGGCAAGAGCGTGCGGCCATTTGCTCCAGTGAGGCCTACG
TGGAGGCCATGAAGGAGGACCTGGCCGAGTGGCTCAATGCCTTGACGGCCTGGGTCTCCCGGGTGGTGGCGATG
GCTTCCTGACAGGGCTGGCCACGGGCACGACCCTGTGCCAACATGCCAACGCCGTGACCAGGGCTGCCCCGTGCAT
TGGCAGCCGCCCCGCCCCGGCCCCGAGGTGTGGCCTTCCAGGCGCACAGTGTAGTGCCTGGCTCCTTCATGGCGCGCG
ACAAQGTGGCCACCTTCATCGGCTGGTGGCGGTGGAGCTGGGTGTGCCGGAGGTGCTCATGTTTGAGACTGAGG
ACCTGGTGTGTGCGCAAGAACGAGAAGAGCGTGGTGTGTGCTGTGCTGGAGGTGGCGCGGCGTGGGGCACGCCTGG
GCCTGCTGGCCCCACGCCTCGTGCAGTTTGAGCAGGAGATTGAGCGGGAGCTGCGTGTGTCACCCCCAGCCCCCA
ACGCCCCGTGCCGTGGGGAGGACACCACTGAAACCGCCCCCGCACAGGGACTCCTGCCCCGCGCCCCCGCATGA
CACCCAGCGACCTGCGCAACCTCGACGAGCTGGTGGGGGAGATTCTGGGCGCTGCACCTGCCCTGACCAGTTTC
CCATGATCAAGGTCTCAGAGGGGAAGTACCGTGTGGGGGACTCGAGCCTGCTCATCTTTGTGCGGGTGTGAGGA
GCCACGTGATGGTGCAGTGGGTGGTGGCTGGGACACGCTGGAGCATTACCTGGACAAGCACGACCCGTGCCGCT
GCTCCTCCACTGCTCATCGCCACCCAGCCGAGGGTCTGCACCTTTTCTCCACAGAGGGTGTGCCCCACCACCA
GTCCCCGCCCTGTAGCCCACTCCCTGGGAGTGAGCGCGGGGCTCCCGGCTGAGATGACTCCCGTTAGCTTAC
GAAGCACAAAGGAGGGGGCCGAGACCCACCCAGGCCCGGGATCAGCTGCCCCCCATCCCGCTCCCGCCGCT
ACTCCGGGGACAGTGACTCCTCAGCCTCCTCCGCCAGAGCGGCCCTTGGTACCCGCAGTGATGACACAGGCA
CTGGCCCCCGGAGGGAGCGACCCAGCGCGGGCTGACCACAGGACCCCGGCCCTCTCCGAGACGGCTCCTGCC
TGCGCAGCCAGTCCCGAGACCGGCTGGATCGCGGGCGGGCCCCGGGGGGCCCCAGGAGGCAGGGGAGCCAGCTGT
CGGTCCCCAGCCCTGCCCGGCGGGCCCCGGAGCCAGAGCCGCGAGGAGCAGGCTGTGCTGCTTGTGCGCAGGGATC
GAGACGGGCAGCACTCATGGGTGCCAAGGGGCAGGGGCAGTGGGGGCTCGGGCAGGAGCACCCCCAGACTCCCC
GTGCCCCGAGCCCTGCAGCACCCCCGGCTTTCCCGGTCTCCAGCCCCAGTCCAGAGTTGGGCACCACACCGGCCA
GCATCTTCCGCACACCCCTGCAGCTCGACCCGCGAGCAGGAGCAGCAGCTGTTCCGGCGCCTGGAAGAGGAGTTCC
TGGCCAATGCCCGGGCCCTTGAGGCTGTTGCTAGCGTGACCCCACTGGACCAGCCCTGACCCAGCTCGGGCCC
CCGACCCCTCAGCTCCTGACTCTGCCTATTGTTCCCTCCAGTTCTCTCTTCGTCCCTCAGCGTCTTGGGTGGCA
AATGTGGCCAACCTGGGGACTCTGGCCGGACGGCCAATGGGCTGCCTGGGCCCCGAAGCCAAGCCCTTTCCAGCT
CCTCCGATGAAGGCAGCCCCCTGCCCTGGCATGGGGGGGCACTAGATGCACCTGGGAGCCCCCTGGCTTGCACTG
AACCTCGAGGACCTGGGCACGGGTGCGATGGACACACAGCCAGACCGTAAACCTCAGTATCCCCACGCCTC
GGGGCCCCCGCGCCCCCTCCGGACCCGCGAGCTGGGGACATGGCATGCCCTGCACTCAGTCACCCCGAGGGCTG
AGCCAGATTCTGGATGTGATGGACCAGCTCAGCTGTCCCCAGACCCCATCCCTTCTCCTTTTCTTTGTGGCCT
TAACCTTCTGCATCAGGGAGCCCCCTCTGCCTCTTGAGTACCAGACCTCATGGGACCAGACCCCTTGGGACCAC
ATGGCACAAATGGGACCTCTGTTGTACATTCCGTTGGGGGATGAGCGTTGCTATTTAATTACTAATATTATTGAA
TGCTTAGAGGAGCCGGGCGAGCCCGGTGTTCTGAAGACCTGTGGCCAGCAGAGCCTCTGACAGTAAAGTTTT
GCTCCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6491/6881
FIGURE 5992

MADPVAGIAGSAAKSVRPFRSSEAYVEAMKEDLAEWLNALYGLGLPGGGDGFLTGLATGTTLCQHANA VTEAARA
LAAARPARGVAFQAHSVVPGSFMARDNVATFIGWCRVELGVPEVLMFETEDLVLRKNEKSVVLC LLEVARRGARL
GLLAPRLVQFEQEIERELRAAPPAPNAPAAGEDTTETAPAPGTPARGPRMTPSDLRNLDELVREILGRCTCPDQF
PMIKVSEGKYRVGDSLLIFVRVLRSHVMVRVGGGWDITLEHYLDKHDFC RCSSTAHRPPQPRVCTFSPQRVSP TT
SPRPASPVPFGSERRGSRPEMTPVSLRSTKEGPETPPRPRDQLPPHPRSRRYSGDSDSSASSAQSGPLGTRSDDTG
TGPRRERPSRRLTTGTPASPRRPPALRSQSRDRLDRGRPRGAPGGRGAQLSVPSPARRARSQSREEQAVLLVRRD
RDGQHSWVPRGRGSGGSGRSTPQTTPRARSAPAARLSRVSSPSPELGTTPASIFRTPLQLDPQQEQQLFRRLEEEF
LANARALEAVASVTPTGPAPDPARAPDPPAPDSAYCSSSSSSSSLSVLGGKCGQPGD SGRTANGLPGPRSQALSS
SSDEGSPCPGMGGFLDAPGSPLACTEPSRTWARGRMDTQPD RKPSRIPTPRGPRRPSGPAELGTWHALHSVTPRA
EPDSWM

6492/6881
FIGURE 5993A

ACCACTTGAAGAGAGGTTTCTAATACTAGACAGATGGAGAGTGGCTTGGCTGTTTCCCCCTGCATATTGGGGTTG
AAAACCTTAAATGTGTAGTTCCAGTCCTTCTATGCAGAGTCTCTCCTGCCCTCCCTCCTTCTGCAGTCTCACCAC
GCCACCACCTCCCTCGGGGGCCTCCGCGCTGAGCTTCCGGCCTCTACGCCTCGCTTCCGGTGGCCGCCCTTCC
TTACTTCCGGTTCTCTATGGTGC GCGGGAAGCTTTGCTCCGCCTCCGGCAGTGGCTTACTCCGGTGGCAGGTT
CTTGGAGCTGTGAGGAGGAACAACCATGTGCATCAGAATCGAGCAAAAAACGGAAGCCCAAAGTGATCCGAAGCGA
TGGAGCCCCAGCTGAAGGAAAGCGGAATCGATCTGACACCGAGCAGGAAGGTAAATACTACAGTGAGGAGGCCGA
GGTGGATCTGCGGGACCCTGGCAGAGACTATGAGTTATACAAGTACACCTGCCAGGAGCTACAGAGGCTGATGGC
TGAGATCCAAGACCTGAAGAGCAGGGGTGGCAAGGATGTGGCAATAGAAATAGAAGAACGGAGGATCCAGAGCTG
TGTGCATTTTCATGACTCTAAAGAAGCTTAACCGATTAGCCACATCAGGTTGAAGAAAGGAAGAGATCAGACCCA
CGAGGCTAAGCAGAAAGTAGATGCCTATCATCTGCAGCTCCAGAACCTGTTGTATGAGGTGATGCACCTACAGAA
GGAGATCACCAAATGTTTGGAGTTTAAAGTCAAAGCATGAAGAAATTGATCTGGTCAGTTTAGAGGAGTTTTATAA
GGAGGCTCCACCAGATATCAGCAAGGCCGAAGTCACCATGGGAGACCCCTCACCAGCAAAACACTGGCACGTCTGGA
CTGGGAGCTGGAGCAGCGGAAAAGGCTGGCAGAGAAGTACCGAGAGTGCCTATCTAACAAGGAGAAGATTCTCAA
GGAGATTGAGGTGAAGAAGGAGTACCTGAGCAGCCTCCAGCCCCGCTCAACAGCATCATGCAGGCTTCCCTTCC
GGTGCAGGAGTACCTGTTTATGCCATTGACACAGGCTCACAAGCAGTATGAGACAGCCAGACACCTGCCGCCTCC
CCTCTATGTCCTCTTTGTTTCAAGGCTGCGTATGGGCAGGCTGTGATAAGACGTTATCTGTGGCAATCGAAGG
CAGTGTGGATGAAGCCAAGGCTCTGTTCAAACCTCCAGAGGACTCCCAAGATGACGAGAGTGAAGTGCAGATGCCGA
GGAGGAGCAGACTACGAAGCGCCGGAGACCCACACTGGGGGTTTCAAGTGGACGACAAACGCAAGGAGATGCTGAA
GAGGCACCCACTGTCTGTCTGCTGACCTGAAGTGCAAAGATGACAGTGTGCTTACCTGACTTTCTACTACCT
CATGAACCTCAACATCATGACAGTAAAAGCCAAAGTGACAAGTGCCTATGGAGCTGATCAGCCCCATCAGTGCAGG
TGACTTGTCTGCTCCTGACTCAGTCTGAGTTGCTTGTATCCTGGGGATCATGGAAAGAAAACCTCCGAATCCAGC
CAATCAGTATCAGTTTGATAAAGTTGGCATCCTGACTTTGAGCGACTATGTACTTGAGCTAGGTACCCCTATTT
GTGGGTGCAGAAGCTGGGTGGCCTCCACTTCCCCAAAGAGCAGCCCCAGCAAAACAGTGATTGCTGACCACTCGCT
GAGCGCCAGCCACATGGAGACCACCATGAAACTTCTGAAGACCAGGGTGCAGTCCCGCCTGGCCCTCCACAAACA
GTTTGCATCCCTAGAACATGGCATTGTGCCAGTTACAGTGATTGCCAGTACCTCTTCCCTGCCAAGGTTGTCTC
TCGCCTGGTGAAATGGGTGACAGTTGCCCATGAGGATTACATGGAGCTGCACTTCACCAAAGACATTGTGGATGC
GGGACTGGCTGGGGACACCAATCTCTACTACATGGCGCTCATCGAAAGGGGCACAGCCAAACTGCAGGCCGCTGT
GGTGTGAACCTGGCTACTCTCCATCCACCTGTTTCCAGCTCTGTTTGAAGTGGAAAGGGGAGAAAACCAA
CAGCAACGATGACAACATTGCGGGCCATGGAGGGCGAAGTCAATGTGTGCTACAAGGAGCTGTGTGGCCCTTGCC
CAGCCACCAGCTGTTGACCAACCAGCTGCAGCGGCTGTGTGTGCTGCTGGATGTTTACCTGGAGACCGAGAGCCA
TGACGACAGTGTGGAGGGGGCCCAAGGAATTTCCCAGGAGAAGATGTGTCTGCGGCTCTTCAGGGGTCTTAGCAG
GATGAAGCCATTTAAATACAACCATCCTCAGGGATTCTTCAGCCATCGCTGATCTCCCGCGCAGACCGTTGTTTC
CCCCAAGGCTCACCCTGAGCACTGGGCTTCTGCTTCTGCTCTGGCCACATGTGACTCTTGATATTCTCCAAA
GACACCAGCCAATTAAGGCGTCACCTGACCAGTGGCCTTTGTCTGTGGTTCTGGCAAGGTGGCTTTGCAGTC
TGGAAGGGCAGGTGGGAGCTGTGACACAGTGTGAAAAAGCATTGTAGAGAGACTTTTTCTCAGCAGCCAATAAA
AGCAGAGTGGAAAAAGATTCCAATTCTGCAGAGAGATGCTCACCTCTTGTCTACGCACACCCTATTTGTGCTTTG
CGGGGTGAGGTCCTCATGATCTTGTATTTATTATCCCAAGTTTCTGCTGTTAAGAGGTGGTAGGAGAAGCCAAAG
GCAGCAGAGCACAAAAAGCAAACTCTTCCCTCCCCACCCGCTCTTCCATTAGTCTGTGAGGGTTGCCGATGG
ACAAATTGTCTCTGATCGTTGGATGTTATAAATGTCTGACAGTGCAGTGCAAACAGAAGACAAACTCAGTTGATC
CTTGAACAACTCAGGGGTTAGGGGCACCAACACCCCTGCCCTGCACAGTTGAAAAATCCGTGTATAACTTTTGA
CTCCCTAAAACTTAATAATAGCCTGCTGTTGACCAGTAGTATGCTATTAGTAGTTACTTACTGCTAACATAGT
CAGTACATATTTTTAGTATATATTTTGTATCTTATACACTGTATTCTTACAATACAGTAACTAGAGAAAAGAAA
ATGTTATAAGGAAAGTCACAAGGGGGCCTGAGTGCAGTGGCTCACGTCTGTAATCCAGCACTTTGGGAGGCCAA
GGCGGGTGGATCACTTGAGGTGAGGAGTTTGAGACCAGCCTGGCCGACATGGTGAAACCTGTCTCTACTAAAAA
CATGGAATTTAGCCAAGCGTGGTGGCGCATGCCTGTAGTCCAGTTACTCAGGAGGCTGAGGCAGAATTACTTGA
ACCCATGAGGCAGAGGTTGCAGTAAGCCAAGATCACGCTCCTGCGCTCCGGCTTGGGCGAGAGTGAGACTCCGTC
TCAAAAATAAATAAATAAGAAAGCCATAAGGAAGAAAATATATATCTACTATTAAGTAGAAGTGATCACCATAA
AGGTCTTCACATACTGTCTCAGGGTTGAATAGTCTAAGGAAGAGGAGGGGTTGGTCTTGGTGTCTCAGGGATGGC

6493/6881
FIGURE 5993B

AGAGGCAGAAAAAGTGGGGGAGGTGGAGGGGGAGGCAGGCACCACTGTTATTTTTATTGAACAAAATCTGTGCAG
GGACTCATGACTGTAATCCTAGTACTTTGGAAAGCTAAGGCGGGAGGATCCCTTGAGGCCAGGAGTTCAGGTCCA
GCCTGGGCAACGTAAGTGTAGAGACCCTGTATCTACAAAAAATTTAAAAATCAGCCAGGTGTGGTGGTATGCACCAA
TAGTCCCAGTTACTCAGAAGGCTGAGGTGGGCGGATGACTGGAGTCCAGGAGTTCAGGTAGCAGTGAGCTATTCTC
ATCGTGCCTGTACTGTACTCCAGCCTGGGAAACAATGCGAGTCCCTATCTCTAAAAAATTTTAAAAAAGAAATC
TGCATATAATAGACCCACAGAGTCCAACTATTGTTTCAGAGATCAACTGTACTTCACAGAGAGTAATTCTAAGTC
TTACAGGATTTTCATGGAGATGGCGAGAGTGGTGTGGAGAATCAATCACATACAGAGATACAGGACAGTGAGACC
AGGTAACATTTGAGGAGAATATTTTTTTTTTTTATTGAGACAGGGTCTTGCTCTGTTGTCCAGGCTGGAGTGCAGTG
GCACGAACACAGCTCACTGCCGCCTCAACCTCTCCTGGGTTCAAGTGATCCTCCTGCCTCAGCCTCCCAAGTAGC
TGGGACCACAGGTGTGTGCCACCATTTCTGGCTAATTTTTAAATTTTTTGTAGAGGCGGGATCCCACTATTTTTTC
CCAGGCTGGTCTCAAACCTCCTGGGCTCAAATGATCCTCCACCTCGGCCTCCCAAAGTGCTAGGATTATAGGCAT
GAGCCACCACACCCGGCCTGAGTAGAGTCTTTAAGGTAATGACAAAAGTGCCCTCAAATATAATTATTTGATTAA
GAGAAGTCTTGGAAGATAGGTAACAACCTTTAAAAATGTTCAATAAAATTACATCCTTTGTAATACTCCTGCAAGT
CAAAGTAAAGGATGGCATAGACTATTCTTGACAGTTTTGTCAAAAAGTGATCTTGACCCCACCATCAGTACTC
CATTCTTCATTTTTAAAAAATAAGATGGGCTGGGCACAGTGGCTTACGCCCTTAATATCAGTACTTTGGGAGGCTG
GTGGGCGGATCACCTGAGATCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAAT
ACAAAAATTAGCTGGGCATGGTGGTGC GCGCCTGTAATCCCAGCCACTCGGGAGGCTGAGGCAGGAGAATTGCTT
GAATCCCCGAGGCGGAGGTTGCACTGAGCCGAGATGGTGCCACTGCACCATCTGGACAACAGAGCAAGACTCCGT
CTTG

6494/6881
FIGURE 5994

ACGGCAGCCGTCAGGGACCGTCCCCCAACTCCCCTTTCCGCTCAGGCAGGGTCCTCGCGGGCCCATGCTGGCCGCT
GGGGACCCGCGCAGCCCAGACCGTTCCCGGGCCGGCCAGCCGGCACCATGGTGGCCCTGAGGCCTGTGCAGCAAC
TCCAGGGGGGCTAAAGGGCTCAGAGTGCAGGCCGTGGGGCGCGAGGGTCCCAGGGCCTGAGCCCCGCGCCATGGCC
GGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACCCGTGAGGATCGTC
ACCATGGACGCCGAGATGGAGTTC AATTGCGAGATGAAGTGGAAAGGGAAGGACCTCTTTGATTTGGTGTGCCGG
ACTCTGGGGCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGACACAGTGGCCTGGCTCAAAATG
GACAAGAAGGTACTGGATCATGATGTTTCAAAGGAAGAACCAGTCACCTTTCACTTCTTGGCCAAATTTTATCCT
GAGAATGCTGAAGAGGAGCTGGTTCAGGAGATCACACAACATTTATTCTTCTTACAGGTAAAGAAGCAGATTTTA
GATGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTCCTGGCTTCTTACGCCGTCCAGGCCAAGTATGGTGAC
TACGACCCCACTGTTTACAAGCGGGGATTTTTGGCCCAAGAGGAATTGCTTCCAAAAGGGTAATAAATCTGTAT
CAGATGACTCCGGAATGTGGGAGGAGAGAATTACTGCTTGGTACGCAGAGCACCGAGGCCGAGCCAGGGATGAA
GCTGAAATGGAATATCTGAAGATAGCTCAGGACCTGGAGATGTACGGTGTGAACTACTTTGCAATCCGGAATAAA
AAGGGCACAGAGCTGCTGCTTGGAGTGGATGCCCTGGGGCTTCACATTTATGACCCTGAGAACAGACTGACCCCC
AAGATCTCCTTCCCGTGAATGAAATCCGAAACATCTCGTACAGTGACAAGGAGTTTACTATTAAACCACTGGAT
AAGAAAATTGATGTCTTCAAGTTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTCCAGCTATGTATCGGG
AACCATGATCTATTTATGAGGAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAGATGAAAGCCCAGGCCAGGGAG
GAGAAGGCTAGAAAGCAGATGGAGCGGCAGCGCTCGCTCGAGAGAAGCAGATGAGGGAGGAGGCTGAACGCACG
AGGGATGAGTTGGAGAGGAGGCTGCTGCAGATGAAAGAAGAAGCAACAATGGCCAACGAAGCACTGATGCGGTCT
GAGGAGACAGCTGACCTGTTGGCTGAAAAGGCCAGATCACCGAGGAGGAGGCAAACTTCTGGCCAGAAAGGCC
GCAGAGGCTGAGCAGGAAATGCAGCGCATCAAGGCCACAGCGATTTCGCACGGAGGAGGAGAAGCGCCTGATGGAG
CAGAAGGTGCTGGAAGCCGAGGTGCTGGCACTGAAGATGGCTGAGGAGTCAGAGAGGAGGGCCAAAAGAGGCAGAT
CAGCTGAAGCAGGACCTGCAGGAAGCACGCGAGGCGGAGCGAAGAGCCAAGCAGAAGCTCCTGGAGATTGCCACC
AAGCCACGTACCCGCCCATGAACCCAATTCCAGCACCGTTGCCTCCTGACATACCAAGCTTCAACCTCATTGGT
GACAGCCTGTCTTTGACTTCAAAGATACTGACATGAAGCGGCTTTCCATGGAGATAGAGAAAGAAAAAGTGGAA
TACATGGAAGAGCAAGCATCTGCAGGAGCAGCTCAATGAACTCAAGACAGAAATCGAGGCCTTGAAACTGAAA
GAGAGGGAGACAGCTCTGGATATTCTGCACAATGAGAACTCCGACAGGGGTGGCAGCAGCAAGCACAAATACCATT
AAAAAGCTCACCTTGAGAGCGCCAAGTCCCGAGTGGCCTTCTTTGAAGAGCTCTAGCAGGTGACCCAGCCACCC
CAGGACCTGCCACTTCTCCTGCTACCGGGACCGCGGGATGGACCAGATATCAAGAGAGCCATCCATAGGGAGCTG
GCTGGGGGTTTTCCGTGGGAGCTCCAGAACTTTCCCCAGCTGAGTGAAGAGCCAGCCCCTCTTATGTGCAATTGC
CTTGAAGTACGACCCTGTAGAGATTTCTCTCATGGCGTTCTAGTTCTCTGACCTGAGTCTTTGTTTTAAGAAGTA
TTTGTCT

6495/6881
FIGURE 5995

MAGAIASRMSFSSSLKRKQPKFTVRIVTMDAEMEFNCEMKWKGDLDLVCRTLGLRETWFFGLQYTIKDTVAVL
KMDKKVLDHDVSKEEPVTFHFLAKFY PENAEELVQEITQHLFFLQVKKQILDEKIYCPPEASVLLASYAVQAKY
GDYDPSVHKRGFLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEMEYLKIAQDLEMYGVNYFAIR
NKKGTELLLGVDALGLHIYDPENRLTPKISFPWNEIRNISYS DKEFTIKPLDKKIDVFKFNSSKLRV NKLILQLC
IGNHDLFMRRRKADSLEVQQMKAQAREEKARKQMERQRLAREKQMREEAERTRDELERLLQMKEEATMANEALM
RSEETADLLAEKAQITEEEAKLLAQKAAEAEQEMQRIKATAIRTEEEKRLMEQKVLEAEVLALKMAESERRAKE
ADQLKQDLQEAREAEERRAKQKLLEIATKPTYPPMNP IPAPLPDP IPSFNLI GDSLSFDFKDTDMKRLSMEIEKEK
VEYMEKSKHLQEQLNELKTEIEALKLKERETALDILHNENSDRGSSKHNTIKKLTLSAKSRVAF FEEL

6496/6881
FIGURE 5996

GGCACGAGGCCGGAAGTGC GGCGCTCAGGGAGCTGTACCGTGGTCGGCGGGCGGGCGGGCGGGCGGCACAG
AGCCGGTGGTGGAGCCGCCGAGGAGGGTCACGCAGCACAATGCCAGCTCTGCCCCCTGGACCAACTCCAGATCACC
CACAAGGACCCGAAGACAGGAAAGCTGAGGACTTCACCAGCGCTGCACCCGAGCAGAAGGCAGACCGGTATTTT
GTGTTATACAAACCGCCCCCTAAAGACAACATTCCCGCCCTAGTGGAGGAGTACCTGGAACGCGCCACCTTCGTA
GCCAATGACCTCGACTGGCTCCTGGCCTTGCCCTACGATAAATTCTGGTGCCAGGTGATCTTTGACGAGACTCTA
CAGAAGTGCCTGGACTCCTACCTGCGCTATGTCCCCGCAATTTCGACGAGGGGGTGGCCTCAGCCCCCTGAGGTT
GTTGACATGCAGAAGCGCCTCCATCGAAGTGTTTTTCTCACCTTCCTCCGCATGTCCACTCACAAGGAATCCAAA
GATCACTTCATTTCCCTTCTGCGTTTGGAGAAATCCTCTACAATAACTTCCTCTTTGACATTCCAAAAGATCCTG
GACCTCTGCGTGCTCTTTGGAAAAGGCAACTCACCCTGCTCCAGAAGATGATAGGAAACATCTTTACACAGCAG
CCAAGTTACTACAGTGACCTGGATGAAACCCCTGCCTACCATCCTTCAGGTCTTCAGCAATATCCTCCAGCAGTGT
GGTTTGCAAGGGGACGGGGCCAATACCACACCCCAAGCTTGAGGAGAGGGGCGGATTGACCCCCAGTGACATG
CCTCTCCTGGAATTAAAGGACATTGTTCTCTACCTTTGTGATACCTGCACCACACTTTGGGCCTTTCTGGATATC
TTCCCTTTGGCTTGCCAGACCTTCCAGAAGCAGACTTTTGTACAGACTAGCTTCCTTCTACGAAGCAGCAATT
CCCGAAATGGAGTCTGCAATTAAGAAGAGGAGGCTTGAAGATAGCAAGCTTCTTGGTGACCTGTGGCAGAGGCTC
TCCCATTCAGGAAGAAGCTAATGGAGATTTTCCACATCATCCTGAACCAGATCTGCCTCCTTCCCATCCTAGAA
AGCAGCTGTGACAACATTCAGGGCTTCATCGAAGAGTTCCTTCAGATCTTCAGCTCCTTGCTGCAGGAGAAGAGG
TTCCTCCGGGACTATGATGCACTCTTCCCCGTGGCCGAAGACATCAGCTTGCTGCAGCAGGCCTCATCAGTCTTG
GACGAGACGCGGACTGCCTACATCCTCCAGGCAGTCGAGAGTGCATGGGAAGGGGTGGACAGACGGAAAGCCACA
GATGCTAAAGACCCATCGGTGATTGAGGAGCCTAATGGGGAGCCTAACGGGGTCACGGTGACAGCAGAGGCAGTC
AGTCAAGCATCATCATCCGGAGAACTCGGAGGAAGAGGAGTGCATGGGAGCAGCCGCGGCTGTGGGCCCTGCC
ATGTGTGGGGTGGAACTGGACTCTCTCATCTCCCAAGTGAAGGACCTGCTGCCAGACCTTGGTGAGGGCTTCATC
CTGGCCTGCCTGGAGTACTACCACTACGACCCAGAGCAGGTGATCAACAATATCCTGGAGGAGCGGCTGGCCCCC
ACCCTCAGCCAGCTGGACCGCAACCTAGACAGAGAAATGAAACCAGACCCTACACCCCTGCTGACGTCTCGCCAC
AACGTCTTCCAGAATGACGAGTTTGATGTGTTGAGCAGGGACTCAGTAGACCTGAGCCGGGTGCACAAGGGCAAG
AGCACCAGGAAGGAGGAAAACACGCGGAGTTTGCTGAACGACAAGCGTGCAGTGGCGGCACAGCGGCAGCGCTAC
GAGCAGTACAGCGTGGTGGTGGAGGAGGTGCCACTGCAGCCAGGCGAGAGCCTGCCCTACCACAGTGTCTACTAC
GAGGATGAGTACGATGACACATACGATGGCAACCAGGTGGGCGCCAATGATGCAGACTCTGATGACGAGCTCATC
AGCCGCAGGCCATTCACCATCCCTCAGGTGCTGAGAACCAGTGCCTAGAGAAGGGCAGGAGGAGGATGACGAC
GATGAGGAAGACGATGCTGACGAGGAGGCTCCCAAGCCGACCATTTTGTTCAGGACCCTGCAGTGCTGAGAGAG
AAGGCAGAAGCCAGGCGCATGGCCTTCTCGCCAAGAAAGGTACCGGCATGACAGCTCAACAGCAGTGGCCGGC
AGCCCCGAGGCCATGGGCAGAGCCGCGAGACAACCCAGGAACGCAGGAAGAAGGAAGCCAACAAGGCGACAAGA
GCCAACCACAACCGGAGAACCATGGCCGACCGCAAGAGGAGCAAAGGCATGATCCCATCCTGACAGCTGGTGACG
GGCCAGTGGGGAGGCAGCGGCACCACTCACCAGGCCGTGCTCCCATCGCCTGGGGCCTCCTCACTAGGGGGCCC
CAAGTTCAACTCAACCCCTCAACAGCCTCAGCTTTGCAGCCCCTGAGAAGGCCGCTCTCATCTACCAGCCAGCC
ATGAGCGCCTTCTGCGAACAACAGTGCCTTATGCCACAGCCGAAGAATCCGTGGGGCCGGCAAGCAGGCACC
TTCCCCCAGCTGCGCTAGCGGGAAAAGAGATGGGGATGGAGTCCCAAGGCAAGCGCCCCAAACCTCGGGCCACAAG
ACACCACTTCCCTTTACCCTGGACAGCAGGAAACCTGTATATTCAAAAACACAAAAGTCTGCTAATAAAATT
TTTGACCCTTTCAAAAAAAAAAAAAAAAAAAAAA

6497/6881
FIGURE 5997

MPALPLDQLQITHKDPKTGKLRTSPALHPEQKADRYFVLYKPPPKDNIPALVEEYLERATFVANDLDWLLALPHD
KFWCQVIFDETLOKCLDSYLRVPRKFDEGVASAPEVVDMMQRLHRSVFLTFMRMSTHKESKDHFISSAFGEIL
YNNFLFDIPKILDLCVLFVGKGNPQLQKMIGNIFTQQPSYSDLDETLPITLQVFSNQLQHCGLQGAGANTTPQK
LEERGRLTPSDMPLELKDILVLYLCDTCTTLWAFLDIFPLACQTFQKHDFCYRLASFYEAAIPEMESAIAKKRRL
DSKLLGDLWQRLSHSRKKLMEIFHIILNQICLLPILESSCDNIQGFIEEFLLQIFSSLLQEKRFRLDYDALFPVAE
DISLLQQAASSVLDETRTAYILQAVESAWEGVDRRKATDAKDPVIEEPNGEPNGVTVTAEAVSQASSHPENSEEE
ECMGAAAAGPAMCGVELDSLISQVKDLLPDLGEGFILACLEYHYHDPEQVINNILEERLAPTLSQLDRNLDREM
KPDPTPLLSRHNVFQNDDEFDVSFSDSVDLRVHKGKSTRKEENTRSLNDKRAVAAQRQRYEQYSVVVEEVPLQ
PGESLPYHSVYYEYDDTYDGNQVGANDADSDDELISRPFITPQVLRTKVPREGQEEDDDDEEDDADEEAPKP
DHFVQDPAVLREKAEARRMAFLAKKGYRHSSTAVAGSPRGHGQSRETTQERRKKEANKATRANHNRRTMADRKR
SKGMIPS

6498/6881
FIGURE 5998

ATGGCTTGGGGAGTCAGTGCCAAATGGAGTAACGAGGGCATCACAAGTGTGGGTGACCCACAGTGGGAATGCCAG
AGTTGGAGCCTGAGCAGGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTTCAGTATAATAACTATGGGAAAG
ACACTCATCGCCAGGACTCAAGGAATCAAATTCATCTGATGGCCTCAAGGGTCATGTGTTTGAAGTCTGCCAA
ATCCAGAAGAAGATGATGGAAATCATGACCCAAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTG
ATTCCAGACAGCACTGGAAAAGACATAGAAAAGGCTTGCCTATCTGTTTATCCTCTCCATGGTGTCTTCATTAGG
AAAGTAAAAATAAAGAAGCCCAAGTTTGAATTGGGAAAACTCATGTAG

6499/6881
FIGURE 5999

GGCACGAGGCCGCAACTCGCTCGGCCGCCGCGCCATCTTGCGAGCTCGTCGTACTGACCGAGCGGGGAGGCTGTCTT
GAGGCGGCACCGCTCACCGACACCGAGGCGGACTGGCAGCCCTGAGCGTCGCAGTCA**ATG**CCGGCCGGACCCGTGC
AGGCGGTGCCCCCGCCGCCCGCCCGTGGCCACGGAGCCCAAACAGCCACAGAAGAAGAAGCATCTTCAAAGGAGG
ATTCTGCACCTTCTAAGCCAGTTGTGGGGATTATTTACCCTCCTCCAGAGGTCAGAAATATTGTTGACAAGACTG
CCAGCTTTGTGGCCAGAAACGGGCCTGAATTTGAAGCTAGGA**T**CCGACAGAACGAGATCAACAACCCCAAGTTCA
ACTTTCTGAACCCCAATGACCCCTTACCATGCCTACTACCGCCACAAGGTCAGCGAGTTCAAGGAAGGGAAGGCTC
AGGAGCCGTCCGCCGCCATCCCCAAGGTCATGCAGCAGCAGCAGCAGACCACCCAGCAGCAGCTGCCCCAGAAGG
TCCAAGCCCCAAGTAATCCAAGAGACCATCGTGCCCAAAGAGCCTCCTCCTGAGTTTGAGTTTCATTGCTGATCCTC
CCTCTATCTCAGCCTTCGACTTGATGTGGTGAAGCTGACGGCTCAGTTTGTGGCCAGGAATGGGCGCCAGTTTC
TGACCCAGCTGATGCAGAAAGAGCAGCGCAACTACCAGTTTGACTTTCTCCGCCACAGCACAGCCTCTTCAACT
ACTTCACGAAGCTAGTGGAACAGTACACCAAGATCTTGATTCCACCCAAAGGTTTATTTTCAAAGCTCAAGAAAG
AGGCTGAAAACCCCGAGAAGTTTGGATCAGGTGTGTTACCGAGTGGAATGGGCCAAATTCCAGGAACGTGAGA
GGAAGAAGGAAGAAGAGGAGAAGGAGAAGGAGCGGGTGGCCTATGCTCAGATCGACTGGCATGATTTTGTGGTGG
TGGAACAGTGACTTCCAACCCCAATGAGCAAGGGAACTTCCCTCCCCCACCACGCCAGAGGAGCTGGGGGCC
GAATCCTCATTAGAGAGCGCTATGAAAAGTTTGGGGAGAGTGAGGAAGTTGAGATGGAGGTGAGTCTGATGAGG
AGGATGACAAACAGGAGAAGGCGGAGGAGCCTCCTTCCCAGCTGGACCAGGACACCCAAGTACAAGATATGGATG
AGGGTTCAGATGATGAAGAAGAAGGGCAGAAAAGTGCCCCCACCACCCAGAGACACCCATGCCTCCACCTCTGCCCC
CAACTCCAGACCAAGTCATTGTCCGCAAGGATTATGATCCCAAAGCCTCCAAGCCCTTGCCCTCCAGCCCCCTGCTC
CAGATGAGTATCTTGTGTCCCCCATTACTGGGGAGAAGATCCCGCCAGCAAAATGCAGGAACACATGCGCATTG
GACTTCTTGACCCTCGCTGGCTGGAGCAGCGGGATCGCTCCATCCGTGAGAAGCAGAGCGATGATGAGGTGTACG
CACCAGGTCTGGATATTGAGAGCAGCTTGAAGCAGTTGGCTGAGCGGCGTACTGACATCTTCGGTGTAGAGGAAA
CAGCCATTGGTAAGAAGATCGGTGAGGAGGAGATCCAGAAGCCAGAGGAAAAGGTGACCTGGGATGGCCACTCAG
GCAGCATGGCCCGGACCCAGCAGGCTGCCCAGGCCAACATCACCTCCAGGAGCAGATTGAGGCCATTACAAGG
CCAAAGGCCTGGTGCCAGAGGATGACACTAAAGAGAAGATTGGCCCCAGCAAGCCCAATGAAATCCCTCAACAGC
CACCGCCACCATCTTCAGCCACCAACATCCCCAGCTCGGCTCCACCCATCACTTCAGTGCCCCGACCACCCACAA
TGCCACCTCCAGTTCTGTAAGTGTCTCCGAGTACCCGTCATGCCCCGGCCCCCAATGGCATCTGTGGTCC
GGCTGCCCCCAGGCTCAGTGATCGCCCCCATGCCGCCATCATCCACGCGCCAGAAATCAACGTGGTGCCCATGC
CTCCCTCGGCCCTCCTATTATGGCCCCCGCCACCCCCCATGATTGTGCCAACAGCCTTTGTGCCTGCTCCAC
CTGTGGCACCTGTCCCAGCTCCAGCCCCAATGCCCCCTGTGCATCCCCACCTCCCATGGAAGATGAGCCACCT
CCAAAAAAGTGAAGACAGAGGACAGCCTCATGCCAGAGGAGGAGTTCTTGCGCAGAAACAAGGGTCCAGTGTTCCA
TCAAAGTCCAGGTGCCAACATGCAGGATAAGACGGAATGGAAACTGAATGGGCAGGTGCTGGTCTTACCCCTCC
CACTCACGGACCAGGTCTCTGTCAATTAAGGTGAAGATTATGAAGCCACAGGCATGCCTGCAGGGAAACAGAAGC
TACAGTATGAGGGTATCTTCATCAAAGATTCCAACCTACTGGCTTACTACAACATGGCCAATGGCGCAGTCATCC
ACCTGGCCCTCAAGGAGAGAGGCGGGAGGAAGAAG**TAG**ACAAGAGGAACCTGCTGTCAAGTCCCTGCCATTTTGC
CTCTCCTGTCTCCACCCCTGCCCCAGACCCAGGAGCCCCCTGAGGCTTTGCCTTGCTGCATATTTGTTTCG
CTCTTACTCAGTTTGGGAATTCAAATTGTCTCTGCAGAGGTTCAATCCCTGACCCCTTTCCCCACATTGGTAAGAG
TAGCTGGGTTTTCTAAGCCACTCTCTGGAATCTCTTTGTGTTAGGGTCTCGATTGAGGACATTCAATTTCTTCAG
CAGCCCATTAGCAACTGAGAGCCAGGGATGTCCTACAGGATAGTTTCATAGTGACAGGTGGCACTTGCTAATA
GAATATGGCTGATATTGTCAATTAATCATTTTGTACCTTGACATGGGTGTCTAATAAACTCGGACCCTTCTGT
GAAAAAAAAAAAAAAAAAAAA

6500/6881
FIGURE 6000

MPAGPVQAVPPPPVPTEPKQPTTEEASSKEDSAPSKPVVGIIYPPPEVRNIVDKTASFVARNGPEFEARIRQNE
INNPKFNFLNPNDPYHAYYRHKVSEFKEGKAQEPSAAIPKVMQQQQQTTOQQLPQKVQAQVIQETIVPKEPPPEF
EFIADPPSISAFDLDVVKLTAQFVARNGRQFLTQLMQKEQRNYQFDFLRPQHSLFNYFTKLVEQYTKILIPPKGL
FSKLKKEAENPREVLDQVCYRVEWAKFQERERKKEEEEKEKERVAYAQIDWHDFVTVDFQPNQGNFPPTT
PEELGARILIQERYEKFGESEEVEMEVESEDEDDKQEKAEPPSQLDQDTQVQDMDEGSDDDEEGQKVPPPETP
MPPPLPPTPDQVIVRKDYDPKASKPLPPAPAPDEYLVSPITGEKIPASKMQEHMRIGLLDPRWLEQRDRSIREKQ
SDDEVYAPGLDISSLKQLAERRTDIFGVEETAIGKKIGEEIQQKPEEKVTWDGHSGSMARTQQAQANITLQEQ
IEAIHKAKGLVPEDDTKEKIGPSKPNEIPQQPPPPSSATNIPSSAPPITSVPRPTMPPPVRTTVVSAVPVMPRP
PMASVVRLPPGVIAPMPPIIHAPRINVVPMPPSAPPIMAPRPPPMIVPTAFVPAPPVAPVPAPAPMPPVHPPPP
MEDEPTSKKLKTEDSLMPEEEFLRRNKGPVSIKVQVPMQDKTEWKLNGQVLVFTLPLTDQVSVIKVKIHEATGM
PAGKQKLQYEGIFIKDSNSLAYYNMANGAVIHLALKERGGRKK

6501/6881
FIGURE 6001

ATGAGGTGGGCGAGGCTTTCCGCTCTCTTGTGCCAGCGGCGGGTGGTGTGGCTGAGCTATGGCGTGGCCAGCTCC
TACGTGCTGGCGGATGCCATTGACAAAGGCAAGAAGGCTGGAGAGGTGCCCAGCCCTGAAGCAGGCCGCGAGCGCC
AGGGTGACTGTGGCTGTGGTGGACACCTTTGTATGGCAGGCTCTAGCCTCTGTGGCCATTCCGGGCTTCACCATC
AACCGCGTGTGTGCTGCCTCTCTCTATGTCTGGGCACTGCCACCCGCTGGCCCCCTGGCTGTCCGCAAGTGGACC
ACCACCGCGCTTGGGCTGTTGACCATCCCCATCATTATCCACCCCATTGACAGGTCGGTGGATTTCCTCCTGGAC
TCCAGCCTGCGCAAGTCTACCCAACAGTGGGGAAGCCAGCTCCTCCTGATCATACTCTGGTACCTGGCCTGTGC
ATCGGCCTCCTGCTTCATGTCAACCTCCTACTCCTGCCAGGGAATGTGGACACCTGGCTCCCTGGTGTCCAAAGA
CCCTGGCACCTGGGTGGGTTTGAGCTGGACAGAAGCTTAGAGACAAAGGCTTCAAGAAGCAGTGGCTGCAGGGAG
TCACAGAAGGGCAGGACCTTGA

6502/6881
FIGURE 6002

MRWARLSALLCQRRVVWLSYGVASSYVLADAIDKGKKAGEVPSPEAGRSARVTVAVVDTFVWQALASVAIPGFTI
NRVCAASLYVLGTATRWPLAVRKWTTTALGLLTIPIIIHPIDRSVDFLLDSSLRKSTQQWGSPAPPDHTLVPGLC
IGLLLHVNLNLLLPGNVDTWLPGVQRPWHLGGFELDRSLETKASRSSGCRESQKGRT

6503/6881
FIGURE 6003

CACGAGGAAGTGGAGCTGCCTGTACGCGCGGCCCTAGTCGGCTCCTCAACGTGGAGCGATGGGAGGCCCTTGAGAA
GAAGAAGTATGAACGAGGCTCGGCCACCAACTACATCACCCGGAACAAAGCCCGGAAGAAGCTCCAGCTGAGCTT
GGCTGACTTTAGGCGGCTGTGCATTCTGAAGGGCATTATCCCCATGAACCCAAACACAAGAAGAAGGTTAACAA
GGGTTCTACAGCAGCCCGAACGTTTTACCTTATCAAAGACATCAGGTTTCTCCTCCACGAACCCATTGTCAACAA
GTTCCGTGAATACAAGGTGTTTCGTCCGGAAGCTCCGGAAGGCTTATGGGAAGAGCGAGTGGAACACTGTAGAGCG
TTTAAAGGACAATAAGCCCAACTACAACTCGACCACATCATCAAGGAACGGTATCCCACGTTTCATCGATGCCCT
GCGGGACCTGGACGATGCCCTCTCCATGTGCTTCTGTTTTCCACCTTCCCGCGGACTGGCAAGTGCCACGTGCA
GACCATTCAGCTGTGCCGCCGGCTCACTGTGGAGTTTCATGCACTACATTATCGCTGCCCCGTGCCCTGCGCAAGGT
CTTCTGTCCATCAAAGGCATTTACTACCAGGCCGAGGTACTGGGGCAGCCCATCGTGTGGATCACTCCCTATGC
CTTCTCCCATGACCACCCGACAGACGTGGACTACAGGGTTCATGGCCACCTTCACCGAGTTCTACACCACGCTGCT
GGGCTTTGTCAACTTCCGCCTTTACCAGTTGCTCAACCTCCACTATCCCCCGAAGCTCGAGGGTCAGGCCCCAAGC
AGAGGCAAAGGCCGGTGAGGGCACCTACGCGTTGGACTCCGAGAGTTGTATGGAGAACTGGCAGCCCTCAGTGC
CAGCCTGGCCCCGCTGGTGGTGCCTGCCACAGAGGAGGAGGCCGAGGTGGATGAGTTTCCACCGATGGGGAGAT
GTCAGCGCAGGAGGAAGACCGCAGGAAGGAGCTGGAGGCGCAGGAGAAGCACAAGAAGCTTTTTGAGGGCCTGAA
GTTCTTCTGAACCGAGAGGTGCCCCGTGAGGCCCTGGCCTTCATCATCAGGAGTTTGGTGGGGAAGTGTCTCTG
GGACAAATCTTTGTGCATTGGGGCCACCTATGACGTCACAGACTCCCGCATCACCCATCAGATTGTGACCGGCC
TGGGCAGCAGACCTCAGTCATTGGCAGGTGCTACGTGCAGCCCCAGTGGGTGTTTGAAGTCAAGTGAACGCCAGGCT
CCTTCTCCCCGTGGCAGAGTACTTCTCTGGGGTGCAGCTGCCCCACACCTTTTACCCTTTGTGACCGAGAAGGA
AGGAGATTACGTTCCACCTGAGAAGCTGAAGCTGCTGGCTCTGCAGCGGGAGAGGACCCAGGAAACCTGAATGA
GTCAGAAGAGGAGGAGGAAGAGGACGACAACAACGAAGGTGATGGTGATGAAGAGGGAGAAAATGAGGAGGAGGA
GGAAGATGCAGAGGCTGGTTTCAGAAAAGGAGGAAGAGGCCCGGCTGGCAGCCCTGGAAGAGCAGAGGATGGAGGG
GAAGAAGCCCAGGGTGATGGCAGGCACCTTGAAGCTGGAGGATAAGCAGCGGCTGGCCCAGGAGGAGGAGAGTGA
GGCCAAGCGCCTGGCCATTATGATGATGAAGAAGCGGGAGAAGTACCTGTACCAGAAGATCATGTTTGGCAAGAG
GCGAAAAATCCGAGAGGCCAACAAGCTGGCGGAGAAGCGGAAAGCCCACGATGAGGCGGTGAGGTCTGAGAAGAA
GGCCAAGAAGGCAAGGCCGGAGTGAGTGCTTGGGCCCCCTCACAGGGCTGAGGCCAGCCCCTAGCAGCTGGATGT
GGCAGAGGCAGGCCAGAGGACCTAAGTGTGATGGACCAGAGTCACTTCTCCTCCTCCTTTCTCCAGCCAGCCCTG
ACCCCTCATGCTCTCTGGCTGGGCCAGTGGGCAGCCCTCGCTTCCCTTGGATGGAGCTGCCCTGCTGGTGCCTGG
TCAGAGAAGAGGCCTCTGTGCCAGCCTGATTCTCTGCTCCCAGGAGCCAGTGACATGAGGTGCAGAGGCCACC
CAGCCCCCTACCTACTGCCCCATTTCATCCTGGCTTTCCACAGCCCCCTCCACACAGTTGGACCCGTGATTCTC
AGGGTGCTGTGATGGGGTGAGGGTAGGGGGAGCATTGTATTAAATGACTGGACTTTTGAAAAAAAAAAAAAA
AAAAAA

6504/6881
FIGURE 6004

MGGLEKKKYERGSATNYITRNKARKKLQLSLADFRRLCILKGIYPHEPKHKKKVNKGSTAARTFYLIKDIRFLLH
EPIVNKFREYKVFVRKLRKAYGKSEWNTVERLKDKNKPNYKLDHI IKERYPTFIDALRDLDDALSMCFLFSTFPRT
GKCHVQTIQLCRRLTVEFMHYIIAARALRKVFLSIKGIYYQAEVLGQPIVWITPYAFSHDHPTDVDYRVMATFTE
FYTTLLGFVNFRLYQLNLHYPPKLEGQAQAEAKAGEGTYALDSESCMEKLAALSASLARVVVPATEEEAEVDEF
PTDGEMSAQEEDRRKELEAQEKHKKLFEGLKFFLNREVPREALAFIIRSFGEVSWDKSLCIGATYDVTD SRITH
QIVDRPGQQT SVIGRCYVQPQWVFD SVNARLLL PVAEYFSGVQLP PHLSPFVTEKEGDYVPPEKLKLLALQRGED
PGNLNESEEEEEEDDNNEGDGDEEGENE EEEEDAEAGSEKEEEARLAAL EEQRM EGKKPRVMAGTLKLEDKQRLA
QEEESEAKRLAIMMMKKREKYLYQKIMFGKRRKIREANKLAEKRAHDEAVRSEKKAKKARPE

6505/6881
FIGURE 6005A

CGAGACTCAGATTGTCTGAATTGAGCTATCGCAACTTAATGCTAAAAGCTCCTTAAAGCTACAGATTTATGACAT
AGTTCCTTCCAAAATATTACATCATAAATCATTGAGAAGATTAAAAAAAACACTTGAAGAAATTGTAGTTTTAA
ACATCTCTGCATATATTTTGGATAGCTACTAGGTTACTTTAACTGTCATTAAAGGAGCACAGACTTACTGAAGCTT
TACTGGACAGAATCCTGGGAAATCGATATCATTATAAGGTTATATTTCCCAGTTAGCGGGTGAAGGGCTGGAGAC
CTTATTGCAGTCATGGCTTTCACAAATTACAGCAGTCTGAATCGAGCTCAGCTAACCTTTGAATATCTGCACACA
AATTCGTAAGTATCCTCTAGGTGCCACTGAGGTAACCAGTAACTCGTTCCTTGATATTATAATGGAATCGTTTCC
CCAGAAAATTTTGCTTTTTTCACTTTTTGAGATGTATCCCACTGGAGTGAAATGTGTCACTGGATATCTTGAGCTC
TGTATTGAAGAACTGAGATCAGTGAAATACTTGTGTCTAATCCAGAAGAACTTGATTTTTGTTTTATTGGATCAAA
ATTTTCTAAATGCAAACCTTTAGTTATTTGAAGTCAATAAGTTGAGTTGTTTCATTCAAGTGTTTTATAGGAATCCA
ACAAATACTGCTCTATTGGATCGCCAAATGTTGGACTATTTTAGTATCAACCGTTTTCCCTCTGTAGTGACAACG
TCCTAAACAGTTAGGTTTATAACAAGTGTTTACTTTCTAACAAGAAAACAGAAGACATTTAAATGACAACCTTCA
AGAAGAAAATTTTTATTTTTTTCAGAAGTTGGCATTATCTTCCTGGCAGATTGCTCACATCCAATATTATTTGTAT
ATGCTAAACAGGAAACGGCAACTTGTTTATATCTCTATTAGATAGTCTTTCCCCAAAATTTCCACAGAAACATA
CAGTGTTTCATGGTTCTTGAGTTTCATGAAGGAGTAATCTAATCACTCCAACATGGTCTGGAATGTTTCAGGTTTAA
TCCATATGCCCACTCTCTTGAGGCTGTCCAGTAGCGTCAAAACTTTAGTGTTTTAATACATTACCTGTTACTT
TTGAGATGAAGTTCACCTTTCTTGATCACATGCAAAGGATGTTTAGGTCTGTGAAGAAAAGAATTTCTAGGCCG
GGTGCTGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGAACCCTCACGAATTTCTGTTTGGTGCTC
TTGCTGAAGTGGTTGATAATGCAAGAGATGCTGATGCCACCAGAATAGATATTTATGCAGAAAGACGAGAGGACC
TTCGAGGAGGATTTATGCTTTTGCTTTTTGGATGATGGAGCAGGAATGGATCCAAGTGATGCTGCCAGTGATGCC
AGTTTGGGAAGTCGGCCAAGCGAACCTGAGTCTACTCAGATTGGGCAGTACGGGAATGGGTTAAATCGGGCT
CAATGCGCATTTGGGAAGGATTTTATCCTGTTTACCAAGAAGGAAGACACCATGACGTGCCTCTTCTGTCTCGCA
CGTTTCATGAGGAAGAAGGCATTGATGAAGTGATAGTCCCACTGCCACCTGGAATGCTCGGACCCGGGAACCTG
TCACAGACAATGTAGAGAAATTTGCCATTGAGACAGAACTCATCTATAAGTACTCTCCATTCCGCACTGAGGAGG
AAGTGATGACCCAGTTTATGAAGATTCCTGGGGACAGCGGAACATTGGTGATCATCTTCAATCTCAAACCTCATGG
ATAATGGAGAGCCAGAAGTACATAATCTCAAATCCAAGAGATATCCAGATGGCAGAGACGTCCCCAGAGGGCA
CGAAGCCAGAGCGGCGCTCGTTCCGTGCCTATGCCGCTGTGCTCTATATTGATCCCCGGATGAGGATCTTCATCC
ATGGGCACAAGGTGCAGACCAAGAGGCTCTCCTGCTGCCTGTACAAGCCCAGGATGTACAAGTACACGTCAAGCC
GTTTCAAGACCCGTGCGGAGCAGGAGGTGAAGAAAGCAGAGCACGTAGCAAGGATTGCTGAAGAGAAGGCGCGGG
AGGCAGAGAGCAAAGCTCGGACATTAGAAGTACGCCTAGGTGGAGACCTCACGCGGGACTCCAGGGTGATGTTGC
GACAGGTTCCAGAACAGAGCCATCACTCTGCGCAGAGAAGCCGATGTCAAGAAGAGGATCAAGGAGGCCAAGCAGC
GAGCACTTAAAGAACCTAAGGAACCTGAATTTTGTTTTTGGTGTCACATTGAACACCGGGATCTGGATGGCATGT
TCATCTACAACCTGTAGCCGACTGATCAAAATGTATGAGAAAGTGGGCCACAGCTGGAAGGGGGCATGGCATGTG
GCGGGGTTGTTGGGGTTGTTGATGTGCCCTACCTGGTCTCTGGAGCCTACACACAACAAACAGGACTTTGCTGATG
CCAAGGAGTACCGGCACCTGCTCCGAGCAATGGGGGAGCACCTGGCGCAGTATTGGAAGGATATTGCCATCGCCC
AGAGGGGAATCATCAAGTCTGGGATGAGTTTGGCTACCTCTCTGCCAACTGGAACCAGCCCCCGTCCAGTGAGC
TGCGTTACAAACGCCGGAGAGCTATGGAATCCCCACCACCATCCAGTGCGATTTGTGTCTGAAATGGAGAACCC
TCCCCTTCCAGCTGAGTTCTGTGGAAGAAAGATTACCCTGACACCTGGGTTTGTCTCATGAACCTGATCCTGAAC
AGGACCGGTGTGAGGCTTCTGAACAAAAGCAGAAGGTTCCCCCTGGGAACATTGAGAAAGGACATGAAGACGCAGG
AAGAGAAGCAGAAACAACCTGACAGAGAAAATTCGCCAGCAGCAGGAGAAGCTGGAGGCCCTTCAGAAAACACAC
CCATCCGCTCCCAAGCAGACCTGAAGAAATTTGCCCTTGGAAAGTGACCACCAGACCTTCCACTGAGGAACCTGTGC
GTAGACCTCAGCGTCTCGGTGCCCCCTTTACCTGCTGTGATCAGGAACGCCCCCAGCAGACCCCCCTTCTTTGC
CAACTCCTAGACCAGCCAGCCAGCCCCGAAAGGCTCCTGTGATCAGCAGTACCCCAAAGCTCCCTGCTTTGGCAG
CCCGGGAGGAGGCCAGCACATCTAGGCTGCTCCAGCCACCTGAGGCACCCCGAAAGCCTGCCAACACTCTCGTCA
AGACTGCATCCCGACCTGCCCCCTCTGGTGACGAACTGTCAACCATCTTTACTGCCCAACTCCAAGAGCCCTCGGG
AGGTTCTTCTCCCAAAGTCATCAAGACTCCAGTGGTGAAGAAGACAGAGTCACCCATCAAACCTCTCCCCGGCTA
CCCCTAGTCGGAAGCGGAGTGTGCGAGTTTCTGATGAGGAAGAAGTTGAGGAGGAAGCTGAGAGGAGGAAGGAGA
GGTGCAAGCGGGGAGATTGTTGTGAAGGAGGAAAAGAAGGACTCGAATGAGCTCTCAGACAGTGCTGGGGAAG
AGGACTCGGCTGACCTCAAGAGAGCTCAGAAAGATAAAGGGCTGCACGTGGAGGTGCGTGTGAACAGGGAGTGGT

6506/6881
FIGURE 6005B

ACACGGGCGGTGTACAGCCGTGGAGGTGGGCAAGCATGTGGTGCGGTGGAAGGTGAAGTTTGACTACGTGCCCCA
CAGACACGACACCAAGAGACCGCTGGGTGGAGAAAGGCAGTGAGGATGTGCGGCTGATGAAACCCCTTCTCCGG
AACATCAGAGCCTTGATACACAACAGGAGGGCGGGGAGGAGGAGGTGGGCCCTGTGGCCCAGCAGGCCATAGCTG
TCGCAGAGCCCTCCACTTCCGAATGCCTCCGCATTGAGCCTGACACCACTGCCCTGAGCACCAATCACGAGACCA
TCGACCTGCTTGTCCAGATCCTCCGGAATTGTTTACGGTACTTCCTGCCTCCAAGTTTCCCCATCTCCAAGAAGC
AGCTGAGTGCTATGAATTCAGATGAGCTAATATCTTTTCCTCTGAAGGAGTACTTCAAGCAATATGAAGTAGGGC
TCCAAAACCTGTGCAATTCCTACCAGAGCCGTGCTGACTCCCGGGCCAAGGCCTCCGAGGAAAGCCTGCGCACCT
CCGAGAGGAAGCTCCGCGAGACGGAGGAGAAGCTGCAGAAGCTGAGGACCAACATCGTGGCACTCCTGCAAAAAG
TGCAGGAGGACATAGACATCAACACAGATGATGAGCTGGACGCCTACATTGAGGACCTCATCACCAAGGGGGACT
GAAGGCAGGAGAGAGAGCAGCTCCCCTGCCCACCTGCCCTCAACCCTGTAGCTGCAGGGGGAGGGGACTTCATT
CATGGGTTGGTGGTCGCACCTTGGTTTGACTTACACGGGACATTTGTGTTTTTGGAGGAAAAGATACCCTGATTC
TTTGAATCTTCCTTAAGTTTATAAATATTTATTTTTTAAAAG

6507/6881
FIGURE 6006

MLCFLLDDGAGMDPSDAASVIQFGKSAKRTPESTQIGQYGNLKGSGSMRIGKDFILFTKKEDTMTCLFLSRTFHEE
EGIDEVIVPLPTWNARTREPVTDNVEKFAIETELIYKYSFRTTEEEVMTQFMKIPGDSGTLVIFNLKLMNDGEP
ELDIISNPRDIQMAETSPEGTKPERRSFRAYAALYIDPRMRIFIHGHKVQTKRLSCCLYKPRMYKYTSSRFKTR
AEQEVKKAEHVARIAEKAREAESKARTLEVRLGGDLTRDSRVMLRQVQNRAITLRREADVKKRIKEAKQALKE
PKELNFVFGVNIHRDLGDFIYNCSRLIKMYEKVGPQLEGGMACGGVVGVDVPYLVLEPTHNKQDFADAKYR
HLLRAMGEHLAQYWKDIAIAQRGIIKFWDEFGYLSANWNQPPSSELYKRRRAMEIPTTIQCDLCLKWRTLFPQL
SSVEKDYPTWVCSMNPDPEDRCEASEQKQKVPLGTFRKDMKTQEEKQKQLTEKIRQQQEKLEALQKTTPIRSQ
ADLKKLPLEVTTRPSTEEPVRPQRPRSPPLPAVIRNAPSRPPSLPTPRPASQPRKAPVISSTPKLPALAAREEA
STSRLQPPPEAPRKPANTLVKTASRPAPLVQQLSPSLLPNSKSPREVPSPKVIKTPVVKKTESPIKLSPATPSRK
RSVAVSDEEEVEEEAERRKERCKRGRFVVKEEKDSNELSDSAGEEDSADLKRAQKDKGLHVEVRVNREWYTGVR
TAVEVGKHVVRWKVKFDYVPTDTTPRDRWVEKGSSEVRLMKPPSEHQSLDTQQEGGEEVGPVAQQAIAVAEPS
TSECLRIEPTTALSTNHETIDLLVQILRNCLRYFLPPSFPISKQLSAMNSDELISFPLKEYFKQYEVGLQNL
NSYQSRADSRASEESLRTSERKLRETEKLQKLRTNIVALLQKVQEDIDINTDDELDAYIEDLITKGD

6508/6881
FIGURE 6007

CAGAATCCAGGGGACGGTTGCTGAGCGGGCCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTCGGGTCCCGAAAGAGCTAAGCCGAGCCTGCGCCGGACGGGTGGGCTGGACTGAGAGAATTCTCTGAGC
TGGTGACAGGTGCCACAGGCACTGGGGATCTCACCAGAAAGGAACCGACGGAGCTAGGGGGCCAGCGAGATGGCGG
ACGAGGCCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTCACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAAGTGCAGCGGCAGGAGCTGGAGCGCGAGGAGGAGGCCCTGGCATCCAAGC
GTTTCCGTGCCGAGCGGCAGGACAACAAGGAGAAGTGGCTGCACTCTCAGCAGCGGGAAGCTGAGCAGCGGGCTG
CCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCTG
GTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACCT
TGGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGC
TGGAAAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCTG
AAGGCACCAGCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCTG
CCTCACCAGCAGTTACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCCAGTGCCTTACAG
CTGAGGTTCCAGGCAGCCAGAGCCACCCCCAGCCACCCAAAGACCACCAGCCCTGAGCCTCAGGAGTCTCAA
CGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAAGAGACCCCTGCTGCCAGAGCC
CCACCAGAGGCCCTCTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCTGCCAACGCTCCCTGTGGTG
TCAGCCCCGCCAACCAGCCAGAACCGAGAGTCCACCCCTTGCCAGCGGACCTTCCTCATTCCAGCGGGCTG
GCTCTGTGCGGGATCGTGTCCACAAGTTACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCCC
AGGCTGCCCTAAGTCCCCTGACCCCGCAAGGCTCCTGGGCCCCCTCCCTCACCAGCACCACCCCTGCCTCCTCT
CCAGCGGCTCCTCCTCTCGGGGCCCAGTGATACCTCCTCCCGGTTAGCAAGGAGCAACGAGGAGTAGCCACAGC
CCCTGGGCCAGCTTGAAGCTGCCCCAGGAGGAGGGCCCCAGGGGGCGGGGCTTGGCTGCTAGGCCCCCTTGAAA
ACAGAGCAGGGGGGCTGTGGCACGTTAGAGGAGCCTGGTGCCCCGCTGCCCGTGGCCGTGGCACTGCCGAGC
CAGGGGGCAGTATGAAGACCACATTCACCATCGAGATCAAGGACGGCCGTGGCCAGGCCTCCACAGGCCGGGTG
TGCTGCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCGACCTACTCAGCACCAGTA
GTGGGGGCAAGAGCACCATACCCGTGTCAACAGCCCTGGGACCTGGCTCGGCTGGGCAGTGTCACCTCATGTCA
CCAGCTTCAGCCATGCCCCCCCCAGTAGCCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCTC
TCGCTGCAGCAGTGGAAGCGGCCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCTC
TGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGGACAAGATGCTGGATCAGAGCACGGACTTTG
AAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGCTCCGACAAAGGAAGAGAGACCAGCGGGACAAGGAGCGGG
AACGGCGGCTGCAGGAGGCACGGGGCCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACCACGAGGC
ACAGCCAGCGGGCAGCTGATGGCTCTGCTGTGACACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATG
GCACACGGACGGCCCGCACCACCACAGTGGAGTCGAGTTTCGTGAGGCGCTCGGAGAATGGCAGTGGCAGCACCA
TGATGCAAACCAAGACCTTCTCCTCTTCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCGCGAGGACCAGG
CCAGCCCACGGGCCGGCAGCCTGGCGGGCTCGAGAAACGGCAGGCCGAGAAGAAGAAAGAGCTGATGAAGGCGC
AGAGTCTGCCCAAGACCTCAGCCTCCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCCG
GCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGGTCCCCAACGCCAACAGCATCAAGC
AGATGCTGCTGGACTGGTGTGAGCCAAGACTCGCGGCTACGAGCACGTGACATCCAGAAGTCTCCTCCAGCT
GGAGTGATGGGATGGCCTTCTGTGCCCTGGTGCACAACTTCTCCCTGAGGCCTTCGACTATGGGCAGCTTAGCC
CTCAGAACCAGCCAGAACTTCGAGGTGGCCTTCTCATCTGCGGAGATGCTGGTGGACTGTGTGCCCTGGTGG
AGGTGGACGACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGTCTTACCTATGTGAGTGTCTTACA
ACCACCTGCGACGCCACGAAGTGCCTGCGCGGCAAGAATGTCTAGCCTGCCCGCCCGCATGGCCAGCCAGTGG
CAAGCTGCCGCCCCACTCTCGGGCACCGTCTCCTGCCTGTGCGTCCGCCACCGCTGCCCTGTCTGTTGCGAC
ACCCTCCCCCCCACATACACAGCAGCGTTTTGATAAATTATTGGTTTTCAACG

6509/6881
FIGURE 6008

MADEALAGLDEGALRKLLLEV TADLAERRRIRSAIRELQRQELEREEEEALASKRFRAERQDNKENWLHSQQREAEQ
RAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRAQEIEAATLAGRLYSGRPNSGSRDESKGLAA
HRLEQCEVPEREEQEQQAEVSKPTPTPEGTSQDVTTVTL LRLAPPGSTSSSPASPSSSPTPASPEPPLEPAEAQC
LTAEVPGSPEPPPSPPKTTSPPEQESPTLPSTEGQVVNKL LSGPKETPAAQSPTRGPSDTKRADVAGPRPCQRS
SVLSPRQPAQNRESTPLASGPSSFQAGSVRDRVHKFTSDSPMAARLQDGPQAALSPLTPARLLGPSLTSTTPA
SSSSGSSSRGPSDTSSRFSKEQRGVAQPLAQLRSCQEEGPRGRGLAARPLENRAGGPVARSEEPGAPLPVAVGT
AEPGGSMKTTFTTIEIKDGRGQASTGRVLLPTGNQRAELTLGLRAPPTLLSTSSGGKSTITRVNSPGTLARLGSVT
HVTFSHAPPSSRGGCSIKMEAEPAEPLAAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQST
DFEERKLIRAAALRELQRKRQDQDKERERRLQEARGRPGEGRGNTATETTTTRHSQRAADGSVSTVTKTERLVHS
NDGTRTARTTTVESSFVRRSENGSGSTMQTTFSSSSSSKKMGSIFDREDQASPRAGSLAALEKRQAEKKKELM
KAQSLPKTSASQARKAMIEKLEKEGAAGSPGGPRAAVQRSTSFQVFNANSIKQMLLDWCRAKTRGYEHVDIQNFS
SSWSDGMAFCALVHNFPEAFDYQLSPQNRQNFVAFSSAEMLVDCVPLVEVDDMMIMGKKPDPKCVFTYVQS
LYNHLRRHELRLRGKNV

6510/6881
FIGURE 6009

CAGAATCCAGGGGACGGTTGCTGAGCGGGCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTCGGGTCCCGAAAGAGCTAAGCCGAGCCTGCGCCGGACGGGTGGGCTGGACTGAGAGAATTCTCTGAGC
TGGTGACAGGTGCCACAGGCACTGGGGATCTCACCAGAAAAGGAACCGACGGAGCTAGGGGCCAGCGAGATGGCGG
ACGAGGCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAAGCTGCTGGAGGTCACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAAGTGCAGCGGCAGGAGCTGGAGCGCGAGGAGGAGGCCCTGGCATCCAAGC
GTTTCCGTGCCGAGCGGCAGGACAACAAGGAGAACTGGCTGCACTCTCAGCAGCGGGAAGCTGAGCAGCGGGCTG
CCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCTG
GTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACCT
TGGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGC
TGGAACAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCTG
AAGGCACCAGCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCTG
CCTCACCCAGCAGTTACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCAGTGCCCTTACAG
CTGAGGTTCCAGGCAGCCCAGAGCCACCCCCAGCCACCCAAGACCACCAGCCCTGAGCCTCAGGAGTCTCCAA
CGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAAGAGACCCCTGCTGCCCAGAGCC
CCACCAGAGGCCCTCTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCTGCCAACGCTCCCTGTGGGTGC
TCAGCCCCCGCCAACCAGCCCAGAACCAGAGTCCACCCCCCTTGCCAGCGGACCTTCCTCATTCCAGCGGGCTG
GCTCTGTGCGGGATCGTGTCCACAAGTTCACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCCC
AGGCTGCCCTAAGTCCCCTGACCCCCGCAAGGCTCCTGGGCCCCCTCCCTCACCAGCACCACCCCTGCCTCCTCT
CCAGCGGCTCCTCCTCTCGGGGCCCCAGTGATACCTCCTCCCGGTTTCAGCAAGGAGCAACGAGGAGTAGCCCAGC
CCCTGGCCCCAGCTTCGAAGCTGCCCCCAGGAGGAGGGCCCCAGGGGGCGGGGCTTGGCTGCTAGGCCCCCTTGAA
ACAGAGCAGGGGGGCTGTGGCACGTTTCAGAGGAGCCTGGTGCCCCGCTGCCCGTGGCCGTCGGCACTGCCGAGC
CAGGGGGCAGTATGAAGACCACATTACCATCGAGATCAAGGACGGCCGTGGCCAGGCCTCCACAGGCCGGGTGC
TGCTGCCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCGACCCCTACTCAGCACCAGTA
GTGGGGGCAAGAGCACCATCACCCGTGTCAACAGCCCTGGGACCTGGCTCGGCTGGGCAGTGTCACTCATGTCA
CCAGCTTCAGCCATGCCCCCCCCAGTAGCCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCTC
TCGCTGCAGCAGTGGAAGCGGCCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCTC
TGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGACAAAGATGCTGGATCAGAGCACGGACTTTG
AAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGCTCCGACAAAGGAAGAGAGACCAGCGGGACAAGGAGCGGG
AACGGCGGCTGCAGGAGGCACGGGGCCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACCACGAGGC
ACAGCCAGCGGGCAGCTGATGGCTCTGCTGTGACCACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATG
GCACACGGACGGCCCCGACACCACAGTGGAGTCGAGTTTCGTGAGGCGCTCGGAGAATGGCAGTGGCAGCACCA
TGATGCAAACCAAGACCTTCTCCTCTTCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCGCGAGGACCAGG
CCAGCCCACGGGCCGGCAGCCTGGCGGCGCTCGAGAAACGGCAGGCCGAGAAGAAGAAAGAGCTGATGAAGGCGC
AGAGTCTGCCAAAGACCTCAGCCTCCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCCG
GCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGGTCCCCAACGCCAACAGCATCAAGC
AGATGCTGCTGGACTGGTGTGAGCCAAGACTCGCGGCTACGAGCACGTGCACATCCAGAATTCTCCTCCAGCT
GGAGTGATGGGATGGCCTTCTGTGCCCTGGTGCACAACCTTCTTCCCTGAGGCCTTCGACTATGGGCAGCTTAGCC
CTCAGAACCAGCGCCAGAACTTCGAGGTGGCCTTCTCATCTGCGGAGACCCATGCGGACTGCCCGCAGCTCCTGG
ATACAGAGGACATGGTGGGCTTCGAGAGCCTGACTGGAAGTGCGTGTACACGTACATCCAGGAATTCTACCGCT
GTCTGGTCCAGAAGGGGCTGGTAAAAACCAAAAAGTCTTAAACCCCTGCTCGGGGCCCCACGGATGCTGGTGGACT
GTGTGCCCTGGTGGAGGTGGACGACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGTCTTACCTATG
TGCAGTCGCTCTACAACCACCTGCGACGCCACGAACTGCGCCTGCGCGGCAAGAATGTCTAGCCTGCCCGCCCGC
ATGGCCAGCCAGTGGCAAGCTGCCGCCCCACTCTCCGGGCACCGTCTCCTGCCTGTGCGTCCGCCCCACCGCTGC
CCTGTCTGTTGCGACACCCTCCCCCCCCACATACACACGCAGCGTTTTGATAAATTATTGGTTTTCAACG

6511/6881
FIGURE 6010

MADEALAGLDEGALRKLLLEVTAADLAERRRIRSAIRELQROELEREEEEALASKRFRAERQDNKENWLHSQQREAEQ
RAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRAQEIEAATLAGRLYSGRPNSGSREDSKGLAA
HRLEQCEVPEREEQEQAEVSKPTPTPEGTSQDVTTVTLILLRAPPGSTSSSPASPSSSPTPASPEPPLEPAEQC
LTAEVPGSPEPPPSPPKTTSPPEQESPTLPSTEGQVVNKLKLSGPKETPAAQSPTRGPSDTKRADVAGPRPCQORSL
SVLSRQPAQNRESTPLASGPSSFQAGSVRDRVHKFTSDSPMAARLQDGTQAALSPLTPARLLGPSLTSTTPA
SSSSGSSSRGPSDTSSRFSKEQRGVAQPLAQLRSCPQEEGPRGRGLAARPLENRAGGPVARSEEPGAPLPVAVGT
AEPGGSMKTTFTTIEIKDGRGQASTGRVLLPTGNQRAELTLGLRAPPTLLSTSSGGKSTITRVNSPGTLARLGSVT
HVTFSHAPPSSRGGCSIKMEAEPAEPLAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQST
DFEERKLIRAAALRELQRKRQDQDKERERRLQEARGRPGEGRGNTATETTTTRHSQRAADGSVSTVTKTERLVHS
NDGTRTARTTTVESSFVRRSENGSGSTMOTKTFSSSSSSKKMGSIQDREDQASPRAGSLAALEKROAEKKKELM
KAQSLPKTSASQARKAMIEKLEKEGAAGSPGGPRAAVQRSTSFQVFNANSIKQMLLDWCRKTRGYEHVDIQNFS
SSWSDGMAFCALVHNFFPEAFDYQLSPQNRQNFVAFSSAETHADCPQLLDTEDMVRLREPDKCVYTYIQEF
YRCLVQKGLVKTKKS

6512/6881
FIGURE 6011

GCGGTGGCAGTTTGGCGGGTGTGTGAAGGGAGACAGTGTGGAGGCCACAGGGTACTCGCCACGATGAGCAGCA
CCTTAGCTAAGATCGCGGAGATAGAAGCAGAGATGGCTCGGACTCAAAAGAACAAGGCCACAGCACACCACTTAG
GGCTGCTTAAGGCTCGTCTTGCTAAGCTTCGTCGAGAACTCATTACTCCAAAGGGTGGTGGTGGTGGAGGTCCAG
GAGAAGGTTTTGATGTGGCCAAGACAGGTGATGCTCGAATTGGATTGTTGGTTTTCCATCTGTGGGGAAGTCAA
CACTGCTTAGTAACCTGGCAGGGGTATATTCTGAGGTGGCAGCCTATGAATTCACTACTCTGACCACTGTGCCTG
GTGTCATCAGATACAAAGGTGCCAAGATCCAGCTCCTGGATCTCCCAGGTATCATTGAAGGTGCCAAGGATGGGA
AAGGTAGAGGTCGTCAAGTCATTGCAGTGGCCGAACCTGTAACCTTGATCTTGATTGTTCTGGATGTCCTGAAAC
CTTGGGACATAAGAAGATAATTGAAATGAGCTGGAAGGCTTTGGCATTGCTTGAACAGCAAACCCCCCAACA
TTGGCTTTAAGAAGAAGGACAAGGGAGGCATTAATCTCACAGCCACTTGCCCCAGAGTGAGCTGGATGCTGAAA
CTGTGAAGAGCATTCTGGCTGAATACAAGATTCATAATGCCGATGTGACTCTACGTAGTGATGCTACAGCTGATG
ACCTCATTGATGTGGTGGGAAGGAAACAGAGTTTATATCCCCTGTATCTATGTGTTAAATAAGATTGACCAAATCT
CCATTGAGGAATTGGATATCATCTATAAGGTGCCTCACTGTGTACCCATCTCTGCCCCATCACCGCTGGAATTTG
ATGACCTATTGGAAAAGATCTGGGACTATCTGAAACTAGTGAGAATTTACACCAAACCCAAAGGCCAGTTACCAG
ATTACACATCCCCAGTGGTGCTTCCTTACTCCAGGACCACAGTGGAGGATTTCTGCATGAAGATTCACAAAAATC
TTATCAAAGAATTTAAATATGCTCTGGTCTGGGTCTCTCTGTGAAACACAATCCTCAGAAAGTGGGTAAAGACC
ATACGTTGGAGGATGAGGATGTCATTCAAATTGTGAAGAAGTGAACCTTTCCCTTTTCCCATCTGCCGGACGAA
CCACAACAGCGTTCCCCATGATCAAGCACCCCTACCCAGTTCTTTCTGGTTTTGGCAGTCACTGGATCAGGATCC
AGGGGAGGGAGATGGAGGCACCCAACTGGAACCTTCAATTTGTCTTACCTTGGTGTACCTTGTATGTCGAACCTGC
ATAAAAGATCTGGTAGGCTGGTCAGCTACATGC

6513/6881
FIGURE 6012

MSSTLAKIAEIEAEMARTQKNKATAHHLGLLKARLAKLRRELITPKGGGGGGPGEFVDVAKTGDARIGFVGFPSV
GKSTLLSNLAGVYSEVAAYEFTTLTTPGVIRYKGAQIQLLDLPGIIEGAKDGKGRGRQVIAVARTCNLILIVLD
VLKPLGHKKIIENELEGFGIRLNSKPPNIGFKKKDKGGINLTATCPQSELD AETVKSILA EYKIH NADVTLRSDA
TADDLIDVVEG NRVIYPC IYVLNKIDQISIEELDIYKVP HCVPI SAHHRWNFDDLLEKIWDY LKLVRIYTKPKG
QLPDYTSPVVL PYSRTTVEDFCMKIHKNL IEFKYALVWGLSVKHN PQKVGKDHTLEDEDVIQIVKK

6514/6881
FIGURE 6013

GTGAGCGGAGCCGGCGCCCCGGCCCTGCCGGGAGCCCCAGGTGACTTCTCAGGGAGGCGCCCCACCCTGCCCCGCT
CAGAGGGCCAGTGCCGGGTGGGGGTGCCCTTCTAGGGCCTTCGGTCGCAGGTGGGCTCTCCCAGCTGTGACGACG
CGGCCCCGGCCTGAGGAGCCCCGCGGACAAGGTTGAGCGAGTCGTGGGCTTTTTTTCCGTCCCCACGTGGGCACG
GCCCGGGCTGCGTGAGCTCACTTCCTCCACATCTTATCTCCTGCCGGGCGCGGGCGCTTCCCATCAGACAGCAGG
AGCCAGTTCTCAGGGTCCTTGGCTGAACACACAAGCTGCAAAGCTACATATACTCCGGCAGAGCTGGCTGCGGGC
TGCAGACTGCAGGGCCGGTCACTCCGCGCAAGTTTGGGTTCCGTGTTTTAGAACTGCCACCTAAGCCCCTCTTATT
TCATCTTTCCTGTGGTGGAACCCCTGCCCCACCGGAGTGTGAGGTTGACTTTTTGGAAAGAGAGCCCTGACCC
TCTATTCTGCACCCTGTGAGCCACCGAGACTGAACCAAACCCAGGAAGCGGCGCCACCAACCAGCCTCGCAGAGG
CAGAGGCCCTGGAGCAGTGACAGCACAGGAGATCTGCTGGCTCGGGGGAAGGGGA

6515/6881
FIGURE 6014

CTCTTTTACCAAGGACCCGCCAACATGTGCCGCGTTTGCACCAAAACCGTGAAGAAGGCGGCCCGGGTCATCATA
GAAAAGTACTACACACGCCTGGGCAACGACTTCCACACGAACAAGCGCGTGTGCAAGGAGATCGCCATTATCCCC
AGCAAGAAGCTCCGCAACAAGATAGCAGGCTATGTCACGCATCTGATGAAATGGATTCAGAGAGGCCCCAGTAAGA
GGTATCTCCATCAAGCTGCAGGAGGAGGAGAGAGAAAAGGAGAGACAATTATGTTTCCTGAGGTCTCAGCCTTGGAT
CAGGAGATAATTGAAGTAGATCCTGACACTAAGGAAATGCTGAAGCTTTTGGACTTCGGCAGTCTGTCCAACCTG
CAGGTCACTCAGCCTACAGTTGGGATGAACTTCAAAATGCCTCGGGGACCTGTTTGAATTTTTTCTGCAGTGCTG
TATTATTTTCAATAAATCTGGCACAACAGC

6516/6881
FIGURE 6015

GCTCTGAGAAGCCGGACTACGCGGCAGCGGCTCTTCAAAGCGGAGCCGGGAGTTTTTGCTACAGTTTTTCGCCACC
ATGAGTCGCAGCTATAATGATGAGCTGCAGTTCTTGGAGAAGATCAATAAAAACTGCTGGAGGATCAAGAAGGGC
TTCGTGCCCCAACATGCAGGTTGAAGGTGTTTTCTATGTGAATGATGCTCTGGAGAAATTGATGTTTGAGGAATTA
AGGAATGCCTGTGCGAGGTGGTGGTGTGGTGGCTTCCTGCCAGCCATGAAACAGATTGGCAATGTGGCAGCCCTG
CCTGGAATTGTTTCATCGATCTATTGGGCTTCCTGATGTCCATTACAGGATATGGGTTTGCTATTGGGAACATGGCA
GCCTTTGATATGAATGACCCTGAAGCAGTAGTATCCCCAGGTGGTGTGCGGGTTTGACATCAACTGTGGTGTCCGC
TTGCTAAGAACCAATTTAGATGAAAGTGATGTCCAGCCTGTGAAGGAGCAACTTGCCCCAAGCTATGTTTGACCAC
ATTCTGTGGGGTGGGGTCAAAAGGTGTCATCCCAATGAATGCCAAAGACTTGAGGAGGCCTTGAGATGGGG
GTGGACTGGTCCTTAAGAGAAGGGTATGCCTGGGCTGAAGACAAGGAGCACTGCGAGGAGTACGGAAGGATGCTG
CAGGCTGACCCCAATAAAGTTTCTGCAAGGGCGAAGAAAAGAGGCCTTCCTCAGTTGGGGACCTGGGAGCAGGC
AACCATTATGCAGAAATCCAGGTTGTGGATGAGATTTTCAATGAGTATGCTGCTAAAAAATGGGCATCGACCAT
AAGGGACAGGTGTGTGTGATGATCCACAGTGGAAAGCAGAGGCTTGGGCCACCAAGTAGCCACAGATGCGCTGGTA
GCTATGGAGAAGGCCATGAAGAGAGACAAGATTATAGTCAATGATCGGCAGTTGGCTTGTGCTCGAATCGCTTCC
CCAGAGGGTCAAGACTATCTGAAGGGAATGGCAGCTGCTGGGAACATATGCCTGGGTCAACCGCTCTTCCATGACC
TTCTTAACCCGTCAGGCTTTTCGCCAAGGTCTTCAACACAACCCCTGATGACTTGGACCTACATGTGATCTATGAT
GTTTCTCACAACATTGCCAAAGTGGAGCAGCATGTGGTGGACGGAAGGAACGGACACTGTTAGTACACAGGAAG
GGATCCACCCGCGCTTTCCCTCCTCACCATCCCCTCATTGCTGTTGATTACCAACTCACTGGACAGCCAGTGCTC
ATTGGTGGCACCATGGGAACCTGTAGTTATGTTCTTACTGGCACTGAACAGGGCATGACTGAGACCTTTGGAACA
ACCTGTCATGGAGCGGGCCGTGCATTGTCCCGAGCAAAATCTCGACGTAATTTAGATTTCCAGGATGTCTTAGAC
AAATTGGCAGATATGGGAATTGCGATCCGTGTTGCCTCACCCAACTGGTTATGGAAGAGGCTCCTGAGTCCAT
AAGAATGTGACAGATGTGGTAAATACCTGCCATGATGCTGGAATCAGCAAGAAAGCCATTAACTGAGACCAATT
GCTGTGATCAAAGGAT**TAGA**ACCTTGGACAGCAGGGCTGCCTGACACCACCAACCCTCTCTGAAGTGGAAAGTGGAC
TGACATGCTCTTCTGACATCAGACTCAAGGCGGGACAAGTTGCAAAGTGTGCAGCTGTAAGTGTCTACGCCAAAA
TGGCTGATGGGGAGGCTGCTGCTTTTCAAGGGCCCGTGCTTGTAATAACCTTCCAGGAAGAGGCACATTGCCCA
CCTTTGGAAGGGAGGAATATGCCTTCTCCTTGGTTGTTCCACAGAGTTTTAGGAAAATCTGTTAGGGATGGGTA
GATGTCAAACCTGCCTTACGCAGTCATACTGATCTTTAGCCATCAGATTGATCTTCTTACACCAAGCTCTGTTTA
CATTCCGAGAGGTGTCATGAAGAAAGTTCTGTTCAATAAGGTTTTGGAATGTTTC

6517/6881
FIGURE 6016

MSRSYNDELQFLEKINKNCWRIKKGFVPNMQVEGVFYVNDALEKLMFEELRNACRGGGVGGFLPAMKQIGNVAAL
PGIVHRSIGLPDVHSGYGFAIGNMAAFDMNDPEAVVSPGGVGFDINCGVRLLRNLDSESDVQPVKEQLAQAMFDH
IPVGVGSKGVIPMNAKDLEEALEMVDWSLREGYAWAEDKEHCEEYGRMLQADPNKVSARAKKRGLPQLGTLGAG
NHYAEIQVVDEIFNEYAAKKMGIDHKGQVCVMIHSGSRGLGHQVATDALVAMEKAMKRDKIIVNDRQLACARIAS
PEGQDYLGMAAAGNYAWVNRSSMTFLTRQAFKVFNTTPDDLHLHVIYDVSHNIAKVEQHVVVDGKERTLLVHRK
GSTRAFPPHHPLIAVDYQLTGQPVLIGGTMGTC SYVLTGTEQGMTETFTGTTCHGAGRALSRAKSRRLDFQDVLD
KLADMGIAIRVASPKLVMEEPESYKNVTDVVNTCHDAGISKKAIKLRPIAVIKG

6518/6881
FIGURE 6017

CCCCGAGAGGCCCGGTTCTTTAGGCCGCCTGCCCCGCTCCAGCTCTCGGGGTCGGCTCTAGGAGGCGCCCTCAG
GAGAGGGGCGGGCGCTCTATTCCAGAGACCGAGTGGCAGGGCGGCCACTGTGGCGGGGCTCTTTCCCCGTTTCGC
CTCAGCTACCCCTCAGCTCCGGTAGTCGCCAGTCCGGGGTCGTGCGCGTTTGGGGCGGGAGCTGCTCGGCCCGC
CGCCGTCCCCGTGCGCGCTTCCGGGTCCAGGCCCTCGGGCCGCTGCGCGCGTCA**ATG**AGGCTGCGGGTGC GGCT
TCTGAAGCGGACCTGGCCGCTGGAGGTGCCCCGAGACGGAGCCGACGCTGGGGCATTGCGCTCGCACCTGAGGCA
GTCCCTGCTGTGCACCTGGGGGTACAGTTCTAATACCCGATTTACAATTACATTGAAGTACAAGGATCCCCCTCAC
TGGAGATGAAGAGACCTTGGCTTCATATGGGATTGTTTCTGGGGACTTGATATGTTTGATTCTTCAAGATGACAT
TCCAGCGCCTAATATACCTTCATCCACAGATTACAGAGCATTCTTCACTCCAGAATAATGAGCAACCCCTCTTTGGC
CACCAGCTCCAATCAGACTAGCATACAGGATGAACAACCAAGTGATTCAATCCAAGGACAGGCAGCCCAGTCTGG
TGTTTGGAATGACGACAGTATGTTAGGGCCTAGTCAAAATTTTGAAGCTGAGTCAATTCAAGATAATGCGCATAT
GGCAGAGGGGCACAGGTTTCTATCCCTCAGAACCCATGCTCTGTAGTGAATCGGTGGAAGGGCAAGTGCCACATTC
ATTAGAGACCTTGTATCAATCAGCTGACTGTTCTGTATGCCAATGATGCCCTGATAGTGTTGATACATCTTCTCAT
GTTGGAGTCAGGTTACATACCTCAGGGCACCGAAGCCAAAGCACTGTCCATGCCGGAGAAGTGGAAGTTGAGCGG
GGTGATATAAGCTGCAGTACATGCATCCTCTCTGCGAGGGCAGCTCCGCTACTCTCACCTGTGTGCCTTTGGGAAA
CCTGATTGTTGTAAATGCTACACTAAAAATCAACAATGAGATTAGAAGTGTAAGAGATTGCAGCTGCTACCAGA
ATCTTTTATTTGCAAAGAGAACTAGGGGAAAATGTAGCCAACATATACAAAGATCTTCAGAACTCTCTCGCCT
CTTTAAAGACCAGCTGGTGTATCCTCTTTTGGCTTTTACCCGACAAGCACTGAACCTACCAGATGTATTTGGGTT
GGTCGTCTCCATTGGAAGTGAAGTACGGATCTTCCGACTTCTGGATGTTTCGTTCCGTCTTGTCTTTGTCTGC
GGTTTGTCTGACCTCTTTACTGCTTCAAATGACCCACTCCTGTGGAGGTTTTTATATCTGCGTGATTTTCGAGA
CAATACTGTCAGAGTTCAAGACACAGATTGGAAAGAACTGTACAGGAAGAGGCACATACAAAGAAAAGAATCCCC
GAAAGGGCGGTTTGTGATGCTCCTGCCATCGTCAACTCACACCATTCCATTCTATCCCAACCCCTTGCACCCTAG
GCCATTTCCCTAGCTCCCGCCTTCCCTCCAGGAATTATCGGGGGTGAATATGACCAAAGACCAACACTTCCCTATGT
TGGAGACCCAATCAGTTCACCTCATTCCCTGGTCTCGGGGAGACGCCAGCCAGTTTCCCTCCACTGAGACCACGCTT
TGATCCAGTTGGCCCACTTCCAGGACCTAACCCCATCTTGCCAGGGCGAGGCGGCCCAATGACAGATTTCCCTT
TAGACCCAGCAGGGGTGCGCCAACCTGATGGCCGGCTGTCAATTCATG**TG**ATTGATTGTAATTTCAATTTCTGGAGC
TCCATTTGTTTTTGTCTTAACTACAGATGTCAACTCCTTGGGGTGCTGATCTCGAGTGTTATTTTCTGATTGT
GGTGTTGAGAGTTGCACTCCCAGAAACCTTTTAAAGAGATACATTTATAGCCCTAGGGGTGGTATGACCCAAAGGT
TCCTCTGTGACAAGGTTGGCCTTGGGAATAGTTGGCTGCCAATCTCCCTGCTCTTGTTTCTCTAGATTGAAG
TTTGTCTTCTGATGCTGTTCTTACCAGATTAAAAAAAAGTGTAATTAATAAAAAAAAAAAAAAAAAA

6519/6881
FIGURE 6018

MRLRVRLKRTWPLEVPETEPTLGHLRSHLRQSLLCTWGYSSNTRFTITLNYKDPLTGDEETLASYGIVSGDLIC
LILQDDIPAPNIPSSDSEHSSLQNEQPSLATSSNQTISIQDEQPSDSFQQAQSGVWDDSM LGPSQNFEAES
IQDNAHMAEGTGFYPSEPMLCSESVEGQVPHSLETLYQSADCS DANDALIVLIHLLMLES GYIPQGTEAKALSMP
EKWKLSGVYKLQYMHPLCEGSSATLTCVPLGNLIVVNATLKINNEIRSVKRLQLLPESFICKEKLGENVANIYKD
LQKLSRLFKDQLVYPLLAFTROALNLPDVFGLVVLPLELKLRIFRLLDVRSVLSLSAVCRDLFTASNDPLLWRFL
YLRDFRDNTVRVQD TDWKELYRKRHIQRKESPKGRFVMLLPSSSTHTIPFY PNPLHPRPFPSSRLPPGIIGGEYDQ
RPTLPYVGDPISSLIPGPGETPSQFPPLRPRFDPVGPLPGPNPILPGRGGPNDRFPFRPSRGRPTDGRLSFM

6520/6881
FIGURE 6019A

CTTGCCCCAGAGCTGATCCTTGTCTTTGTCCACTTCTCAGCGAGGATGGCACTTCAGGGAGCCCTTCCCTTACTA
TCGCAGAGAGAGCAGGCCCTCCCCAGTCATGTCCAACCCAGAACTCTGTTTTGTTTTCTTCATAGCCCTAGCATC
ACAGAAAATCACCTGTGCATTTCATGGATGTCCACGGGGGCAAGGGCTTTGTGTTGCTTAACCCAGCATCCTGAA
CCGTGTTTTGTGAATGAATACAGAACCCCGTTTTGCTCTGGGAGAGCACAGAAAACAGTCTTCTATCATATATCAT
AGCCAGCTGCAAACAGCAGATGGCTTCCCATATCCCAGAGAGTAAGAACCAGAGAGAGAGAGAAAGAGAGAGAGT
TTGGGTCTTTCTCCTCTGTGCCTGCTCTCTCCAGAGAACTGGAGGGGTAGCAGTTAGCATTCCCCCGCTGGTTC
CACCAAGCACAGTCAAGGTCTCTAGGACATGGCCACCCCTCACCTGTGGAAGCGGTCTGCTGGGGTGGGTGGGT
GTTAGTTGGTTCTGGTTTGGGTGAGAGACACCCAGTGGCCCAGGTGGGCGTGGGGCCAGGGCGCAGACGAGAAGG
GGCACGAGGGGCTCCGCTCCGAGGACCCAGCGCAAGCACCGGTCCCGGGCGCGCCCCAGCCACCCACTCGCGTG
CCCACGGCGGGCATTATTCCTATAAGGATCTGAACGATCCGGGGGCGGCCCGCCCGTTACCCCTTGCCCCGG
CCCCGCCCCCTTTTTGGAGGGCCGATGAGGTAATGCGGCTCTGCCATTGGTCTGAGGGGGCGGGCCCCAACAGCC
CGAGGCGGGGTCCCCGGGGGCCAGCGCTATATCACTCGGCCGCCAGGCAGCGGCGCAGAGCGGGCAGCAGGCA
GGCGCGGGGCGCTCAGACGGCTTCTCCTCCTCCTCTTGCTCCTCCAGCTCCTGCTCCTTCGCCGGGAGGCGGCC
GCCGAGTCTGCGCCAGCGCCGAGGCAGCCTCGCTGCGCCCCATCCCGTCCCGCCGGGCACTCGGAGGGCAGCGC
GCCGAGGCCAAGGTTGCCCGCACGGCCCGGGCGGCGAGCGAGCTCGGGCTGCAGCAGCCCCGCCGGCGGGCGCG
CACGGCAACTTTGGAGAGGCGAGCAGCAGCCCCGGCAGCGGCGGCAGCAGCGGCAATGACCCCTTGGCTCGGGCT
CATCGTGCTCCTGGGCAGCTGGAGCCTGGGGGACTGGGGCGCCGAGGCGTGACATGCTCGCCCAGCCACCCCA
GGACGCCTTCTGCAACTCCGACATCGTGATCCGGGCCAAGGTGGTGGGGAAGAAGCTGGTAAAGGAGGGGCCCTT
CGGCACGCTGGTCTACACCATCAAGCAGATGAAGATGTACCGAGGCTTCACCAAGATGCCCATGTGCAGTACAT
CCATACGGAAGCTTCCGAGAGTCTCTGTGGCCTTAAGCTGGAGGTCAACAAGTACCAGTACCTGCTGACAGGTGCG
CGTCTATGATGGCAAGATGTACACGGGGCTGTGCAACTTCGTGGAGAGGTGGGACCAGCTCACCTCTCCCAGCG
CAAGGGGCTGAACTATCGGTATCACCTGGGTTGTAAGTGAAGATCAAGTCTGCTACTACCTGCCTTGCTTTGT
GACTTCCAAGAACGAGTGTCTCTGGACCGACATGCTCTCQAATTTTCGGTTACCCCTGGCTACCAGTCCAAACACTA
CGCTGCAATCCGGCAGAAAGGGCGGCTACTGCAGCTGGTACCGAGGATGGGCCCCCGGATAAAAGCATCATCAA
TGCCACAGACCCCTGAGCGCCAGACCCTGCCCCACCTCACTTCCCTCCCTTCCCGCTGAGCTTCCCTTGGACACT
AACTCTTCCCAGATGATGACAATGAAATTAGTGCTGTTTTCTTGCAAAATTTAGCACTTGGAAACATTTAAAGAAA
GGTCTATGCTGTATATGGGGTTTATTGGGAACATCCTCCTGGCCCCACCCTGCCCTTCTTTTTTGGTTTTTGAC
ATCATTCAATTTCCACCTGGGAATTTCTGGTGCCATGCCAGAAAGAATGAGGAACCTGTATTCTCTCTCTCGTGA
TAATATAATCTCTATTTTTTTTAGGAAAACAAAATGAAAACTACTCCATTTGAGGATTGTAATTTCCACCCCTC
TTGCTTCTTCCCCACCTCACCATCTCCCAGACCCCTCTTCCCTTTGCCCTTCTCCTCCAATACATAAAGGACACAG
ACAAGGAACCTTGCTGAAAGGCCAACCATTTTCAGGATCAGTCAAAGGCAGCAAGCAGATAGACTCAAGGTGTGTGA
AAGATGTTATACACCAGGAGCTGCCACTGCATGTCCCAACCAGACTGTGTCTGTCTGTCTGTCTGCATGTAAGAGTG
AGGGAGGGAAGGAAGGAACACAAGAGAGTCCGAGATGATGCAGCACACACACAATTCCCCAGCCCAGTGATGCT
TGTGTTGACCAGATGTTCTGAGTCTGGAGCAAGCACCCAGGCCAGAATAACAGAGCTTTCTTAGTTGGTGAAGA
CTTAAACATCTGCTGAGGTGAGGAGCAATTTGCCTGCCTTGTAACAAAAGCTCAGGTGAAAGACTGAGATGAAT
GTCTTTCCTCTCCCTGCCTCCACAGACTTCTCCTGGAAAACGCTTTGGTAGATTTGGCCAGGAGCTTTCTTT
TATGTAATTTGGATAAATACACACACCATACTATCCACAGATATAGCCAAGTAGATTTGGGTAGAGGATACTA
TTTCCAGAATAGTGTTTAGCTCACCTAGGGGGATATGTTTGATACACATTTGCATATACCCACATGGGGACATA
AGCTAATTTTTTACAGGACACAGAATTCTGTTCAATGCTGTAAATATGCCAATAGTTTAACTCTCTCTATTTT
GTTGTCGTTGCTTGTGTTGAAGAAAATCATGACATTCCAAGTTGACATTTTTTTTTTCAATTTAATTAAAATTTGAA
ATTCTGAACACCGTCAGCACCTCTCTTCCCTATCATGGGTCTCTGACCCCTGTCCGCTCTCCTGTCCCTGCTT
CATGTTTGGGGGCCCTTTCTTTAACTGCCTTCCCTGGCTTAGCTCAGATGGCAGATGAGAGTGTAGTCAAGGGCCTG
GGCACAGGAGGGAGAGCTGCAGAGTGTCTGCCTGCCTTGGCTGGAGGGACACCTCTCCTGGGTGTGGAGACAGC
TTGGTTCCCTTTCCCTAGCTCCCTGGTGGGTGAATGCCACCTCCTGAGATCCTCACCTCTTGGAAATTTAAATTTGT
TGGTCACTGGGGAAAGCCTGAGTTTGCAACCAGTTGTAGGGTTTCTGTTGTGTTTTTTTTTTTTTTTTTGAATA
AAACTATAATATAAATTTCTCTATTAAATAAAATTATTTTAAAGTTTTAGTGTCAAAGTGAGATGCTGAGAGTAG
GTGATAATGTATATTTTACAGAGTGGGGGTTGGCAGGATGGTGACATTGAACATGATTGCTCTCTGTCTCTTTTT
TCAGCTTATGGGTATTTATCTTCTATTAGTATTTGTATCTTCAGTTTCATTCACCTTTAGGAAACAGAGCTGCCAA

6521/6881
FIGURE 6019B

TTGAAACAGAAGAAGAAAAAAGCAGCAGACAACACACTGTAGAGTCTTGACACACACAAGTGCCAG
GCAAGGTGCTTGGCAGAACCGCAGAGTGGGAAGAGAGTACCGGCATCGGGTTTCCTTGGGATCAATTTATTACC
GTGTACCTTTCCCATTTGTGGTCATGCCATTTGGCAGGGGGAGAATGGGAGGCTTGGCCTTCTTTGTGAGGCAGTG
TGAGCAGAAGCTGATGCCAGCATGTCACTGGTTTTGAAGGGATGAGCCCAGACTTGATGTTTTGGGATTGTCCTT
ATTTTAACCTCAAGGTCTCGCATGGTGGGGCCCCGACCAACCTACACAAGTTCCCTCCACAAGTGACATCAG
TGTCTTCTCTGTGAGGCATCTGGCCATTCGCACTCCCTGGTGTGGTCAGCCTCTCTCACACAAGGAGGAAGTTGG
GTGAAGGCTGAGTGTGAGGCACCTGAAGTTTCCCTGCGGAGTCGATAAATTAGCAGAACCACATCCCCATCTGTT
AGGCCTTGGTGAGGAGGCCCTGGGCAAAGAAGGGTCTTTCGCAAAGCGATGTCAGAGGGCGGTTTTGAGCTTTCT
ATAAGCTATAGCTTTGTTTATTTACCCGTTCACTTACTGTATAATTTAAAATCATTATGTAGCTGAGACACTT
CTGTATTTCAATCATATCATGAACATTTTATTTTGCTAAATCTTGTGTCATGTGTAGGCTGTAATATGTGTACAT
TGTGTTTAAAGAGAAAAATGAAACCCACATGCCGCCATTTTCCTGAATCAAATTCAGTGGGAATGGAGAGGAAA
ATACTTCTAGGCAAGCAGCTAGACTGGTGAATTGGGGGAAATAGAAGGAAGTAGTAAGTGAAGTCTCCAGCCT
CCTCCCTATTGGAATCCCAATGGCTCCTGGAGTAGGAAAAAGTTTAAACTACATTCATGTTCTTGTCTGTGTC
ACTCGGCCCTGGGTAGTCTACCATTTACTTCACCCCAAGTCTGCTGCCCATCCAGTTGGGAAGCCATGATTTTC
CTAAGAATCCAGGGCCATGGGAGATACAATCCAAGTTCTCGCTTCCTCCTTTGGGCATCTCTCTGCTCCCAA
TCAAGGAAGCTCCATGCTCAGGCTCTCAGCTCTCGGGCCAGTGCTCTGCTCTGTCCAGGGTAGGTAATACTGGGA
GACTCCTGTCTTTTACCCTCCCCTCGTTCCAGACCTGCCTCATGGTGGCAACATGGTTCTTGAACAATTAAAGAA
ACAAATGACTTTTTTGAATAGCCCTGTCTAGGGCAAAGTGTGGCCCCAGGAGACACTACCCTTCCATGCCCCAG
ACCTCTGTCTTGCATGTGACAATTGACAATCTGGACTACCCCAAGATGGCACCCAAGTGTGTTGGCTTCTGGCTAC
CTAAGGTTAACATGTCACTAGAGTATTTTATGAGAGACAAACATTATAAAAATCTGATGGCAAAGCAAAACAA
AATGGAAAGTAGGGGAGGTGGATGTGACAACAACCTCCAAATTGGCTCTTTGGAGGCGAGAGGAAGGGGAGAACT
TGGAGAATAGTTTTTGCTTTGGGGGTAGAGGCTTCTTAGATTCTCCAGCATCCGCCTTTCCCTTTAGCCAGTCT
GCTGTCCTGAAACCCAGAAGTGATGGAGAGAAACCAACAAGAGATCTCGAACCTGTCTAGAAGGAATGTATTTG
TTGCTAAATTTCTAGCACTGTTTACAGTTTCCCTCCATGTTATTTATGAATTTTATATTCCGTGAATGTATATT
GTCTTGTAATGTTGCATAATGTTCACTTTTTATAGTGTGTCCTTTATTCTAAACAGTAAAGTGGTTTTATTCTA
TCAC

6522/6881
FIGURE 6020

TCAACGCCTGCCTCCCCCTCGAGCGTCCTCAGCGCAGCCGCCGCCCGCGGAGCCAGCACGAACGAGCCCAGCACCG
GCCGGATGGAGCGTCCGCAACCCGACAGCATGCCCCAGGATTTGTCAGAGGCCCTGAAGGAGGCCACCAAGGAGG
TGCACACCCAGGCAGAGAATGCTGAGTTCATGAGGAACTTTCAGAAGGGCCAGGTGACCCGAGACGGCTTCAAGC
TGGTGATGGCCTCCCTGTACCACATCTATGTGGCCCTGGAGGAGGAGATTGAGCGCAACAAGGAGAGCCCAGTCT
TCGCCCCCTGTCTACTTCCCAGAAGAGCTGCACCGCAAGGCTGCCCTGGAGCAGGACCTGGCCTTCTGGTACGGGC
CCCGCTGGCAGGAGGTATCCCCCTACACACCAGCCATGCAGCGCTATGTGAAGCGGCTCCACGAGGTGGGGCGCA
CAGAGCCCCGAGCTGCTGGTGGCCACGCCTACACCCGCTACCTGGGTGACCTGTCTGGGGGCCAGGTGCTCAAAA
AGATTGCCCAGAAAGCCCTGGACCTGCCAGCTCTGGCGAGGGCCTGGCCTTCTTCACCTTCCCCAACATTGCCA
GTGCCACCAAGTTCAAGCAGCTCTACCGCTCCCGCATGAACTCCCTGGAGATGACTCCCGCAGTCAGGCAGAGGG
TGATAGAAGAGGCCAAGACTGCGTTCTGTCAACATCCAGCTCTTTGAGGAGTTGCAGGAGCTGCTGACCCATG
ACACCAAGGACCAGAGCCCCCTACGGGCACCAGGGCTTCGCCAGCGGGCCAGCAACAAAGTGCAAGATTCTGCC
CCGTGGAGACTCCCAGAGGGAAGCCCCACTCAACACCCGCTCCCAGGCTCCGCTTCTCCGATGGGTCTTACAC
TCAGCTTTCTGGTGGCGACAGTTGCTGTAGGGCTTTATGCCATGTGAATGCAGGCATGCTGGCTCCAGGGCCAT
GAACTTTGTCCGGTGGAAGGCCTTCTTTCTAGAGAGGGAATTCTCTTGGCTGGCTTCTTACCGTGGGCACTGAA
GGCTTTCAGGGCCTCCAGCCCTCTCACTGTGTCCCTCTCTCTGGAAGGAGGAAGGAGCCTATGGCATCTTCCCC
AACGAAAAGCACATCCAGGCAATGGCCTAACTTCAGAGGGGGCGAAGGGGTCAGCCCTGCCCTTCAGCATCCTC
AGTTCTGCAGCAGAGCCTGGAAGACACCCTAATGTGGCAGCTGTCTCAAACCTCCAAAAGCCCTGAGTTTCAAG
TATCCTTGTTGACACGGCCATGACCACTTTCCCCGTGGGCCATGGCAATTTTACACAAACCTGAAAAGATGTTG
TGTCTGTGTTTTTGTCTTATTTTTGTTGGAGCCACTCTGTTCTGGCTCAGCCTCAAATGCAGTATTTTTGTTG
TGTCTGTGTTTTTATAGCAGGGTTGGGGTGGTTTTTGGAGCCATGCGTGGGTGGGGAGGGAGGTGTTTAACGGC
ACTGTGGCCTTGGTCTAACTTTTGTGTGAAATAATAACAACATTGTCTG

6523/6881
FIGURE 6021

MERPQPD SMPQDLSEALKEATKEVHTQAENAEFMRNFQKGQVTRDGFKLVMASLYHIYVALEEEIERNKESPVFA
PVYFPEELHRKAALEQDLAFWYGPRWQEVIPYTPAMQRYVKRLHEVGRTEPELLVAHAYTRYLGDLSGGQVLKKI
AQKALDLPSSGEGLAFFTFPNIASATKFKQLYRSRMNSLEMTPAVRQRVIEEAKTAFLLNIQLFEELQELLTHDT
KDQSPSRAPGLRQRASNKVQDSAPVETPRGKPLNTRSQAPLLRWVLTLSFLVATVAVGLYAM

6524/6881
FIGURE 6022

TTTTCCCGCGAAACTCGGCGGCTGAGCGTGGAGGTTCTTGTCTCCCTGGTTTGTGAAGTGC GGAAAACAGAGG
CGCAGTCAATGTCGGGATTTCGACGATCCTGGCATTCTTCTACAGCGACAGCTTCGGGGGCGACGCCAGGCCGACGA
GGGGCAGGCCCCGAAATCGCAGCTGCAGAGGCGCTTCAAGGAGTTCTGCGGCAGTACCGAGTGGGCACCGACCG
CACGGGCTTCACCTTCAAATACAGGGATGAACTCAAGCGGCATTACAACCTGGGGGAGTACTGGATTGAGGTGGA
GATGGAGGATCTGGCCAGCTTTGATGAGGACCTGGCCGACTACTTGTACAAGCAGCCAGCCGAGCACCTGCAGCT
GCTGGAGGAAGCTGCCAAGGAGGTAGCTGATGAGGTGACCCGGCCCCGGCCTTCTGGGGAGGAGGTGCTCCAGGA
CATCCAGGTCAATGCTCAAGTCGGACGCCAGCCCTTCCAGCATTCGTAGCCTGAAGTCGGACATGATGTACACCT
GGTGAAGATCCCTGGCATCATCATCGCGGCCTCTGCGGTCCGTGCCAAGGCCACCCGCATCTCTATCCAGTGCCG
CAGCTGCCGCAACACCCTACCAACATTGCCATGCGCCCTGGCCTCGAGGGCTATGCCCTGCCCAGGAAGTGCAA
CACAGATCAGGCTGGGCGCCCCAAATGCCATTGGACCCGTACTTCATCATGCCCGACAAATGCAAATGCGTGGA
CTTCCAGACCCTGAAGCTGCAGGAGCTGCCTGATGCAGTCCCCACGGGGAGATGCCCAGACACATGCAGCTCTA
CTGCGACAGGTACCTGTGTGACAAGGTCGTCCCTGGGAACAGGGTTACCATCATGGGCATCTACTCCATCAAGAA
GTTTGCCCTGACTACCAGCAGGGGCCGTGACAGGGTGGGCGTGGGCATCCGAAGCTCCTACATCCGTGTCTGGG
CATCCAGGTGGACACAGATGGCTCTGGCCGACGCTTGTGTTGGGCGGTGAGCCCCAGGAGGAGGAGGAGTTCCG
TCGCTGGCTGCCCTCCCAAATGTCTATGAGGTCACTCCAAGAGCATCGCCCCCTCCATCTTTGGGGGCACAGA
CATGAAGAAGGCCATTGCCTGCCTGCTCTTTGGGGGCTCCCGAAAGAGGCTCCCTGATGGACTTACTCGCCGAGG
AGACATCAACCTGCTGATGCTAGGGGACCCTGGGACAGCCAAGTCCAGCTTCTGAAGTTTGTGGAGAAGTGTTT
TCCCATTGGGGTATACACGTCTGGGAAAGGCAGCAGCGCAGCTGGACTGACAGCCTCGGTGATGAGGGACCCCTC
GTCCCGGAATTTATCATGAGGGGCGGAGCCATGGTCCTGGCCGATGGTGGGGTCTGTCTGTATTGACGAGTTTGA
CAAGATGCGAGAAGATGACCGTGTGGCAATCCACGAAGCCATGGAGCAGCAGACCATCTCTATCGCCAAGGCTGG
GATCACCACCACCCTGAACTCCCGCTGCTCCGTCTTGGCTGCTGCCAACTCAGTGTTCGGCCGCTGGGATGAGAC
GAAGGGGGAGGACAACATTGACTTCATGCCCCACCATCTTGTGCGGCTTCGACATGATCTTCATCGTCAAGGATGA
GCACAATGAGGAGAGGGATGTGATGCTGGCCAAGCATGTCACTCTGCACGTGAGCGCACTGACACAGACACA
GGCTGTGGAGGGCGAGATTGACCTGGCCAAGCTGAAGAAGTTTATTGCCTACTGCCGAGTGAAGTGTGGCCCCCG
GCTGTGTCAGCAGAGGCTGCAGAGAACTGAAGAACCCTACATCATATGCGGAGCGGGGCCCGTCAGCACGAGAG
GGACAGTGACCGCCGCTCCAGCATCCCCATCACTGTGCGGCAGCTGGAGGCCATTGTGCGCATCGCGGAAGCCCT
CAGCAAGATGAAGCTGCAGCCCTTCGCCACAGAGGCAGATGTGGAGGAGGCCCTGCGGCTCTTCCAAGTGTCAC
GTTGGATGCTGCCTTGTCCGGTACCCTGTGAGGGGTGGAGGGCTTACCAGCCAGGAGGACCAGGAGATGCTGAG
CCGCATCGAGAAGCAGCTCAAGCGCCGCTTTGCCATTGGCTCCCAGGTGTCTGAGCACAGCATCATCAAGGACTT
CACCAAACAGAAATACCCGGAGCACGCCATCCACAAGGTGCTGCAGCTCATGCTGCGGCGCGGGCAGATCCAGCA
TCGCATGCAGCGCAAGGTTCTCTACCGCCTCAAGTGAGTCGCGCCGCTCACTGGACTCATGGACTCGCCCCACGC
CTCGCCCCCTCTGCGCTGCTGCCATTGACAAATGTTGCTGGGACCTCTGCCTCCCCACTGCAGCCCTCGAACTT
CCCAGGCACCCTCCTTTCTGCCCCAGAGGAAGGAGCTGTAGTGTCTGCTGCCTCTGGGCGCCCCGCTCTAGCGC
GGTTCTGGGAAGTGTGCTTTTGGCATCCGTTAATAATAAAGCCACGGTGTGTTACAGT

6525/6881
FIGURE 6023

MSGFDDPGIFYSDSFGGDAQADEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELKRHYNLGEYWIEVEME
DLASFDEDLADYLYKQPAEHLQLLEEAKEVADEVTRPRPSGEEVLQDIQVMLKSDASPSIRSLSMMSHLVK
IPGIIIAASAVRAKATRISIQCRCRNTLTNIAMRPGLEGYALPRKCNTDQAGRPKCPLDPYFIMPDCKCVDFO
TLKLQELPDVPHGEMPRHMLYCDRYLCDKVVPGNRVTIMGIYSIKKFGLTTSRGRDRVGVGIRSSYIRVLGIQ
VDTDGSGRSFAGAVSPQEEEEFRRLAALPNVYEVISKSIAPSIFFGGTDMKKAIACLLFGGSRKRLPDGLTRGDI
NLLMLGDPGTAKSQLLKFEKCSPIGVYTSGKGSSAAGLTASVMRDPSSRNFIEMEGGAMVLADGGVVCIDEFDKM
REDDRVAIHEAMEQQTISIAGITTTLSNRCSVLAAANSVFGRWDETKGEDNIDFMPTILSRFDMIFIVKDEHN
EERDVMLAKHVITLHVSAITQTQAVEGEIDLAKLKKFIAYCRVKCGPRLSAEAAEKLKNRYIIMRSGARQHERDS
DRSSIPITVRQLEAIVRIAELSKMKLOPFATEADVEEALRLFQVSTLDAALSGTSLSGVEGFTSQEDQEMLSRI
EKQLKRRFAIGSQVSEHSIIKDFTKQKYPEHAIHKVLQLMLRRGEIQHRMQRKVLYRLK

6526/6881
FIGURE 6024

GAGGTGCTGGGGAGCAGCGTGTGCTGTGCTTGATTGTGAGCTGCTGGGAAGTTGTGACTTTCATTTTACCTTT
CGAATTCCTGGGTATATCTTGGGGGCTGGAGGACGTGTCTGTTATTATATAGGTGCACAGCTGGAGGTGAGATC
CACACAGCTCAGACCAGCTGGATCTTGCTCAGTCTCTGTCTCAGAGGAAGATCCCTTGGAGGAGGCCCCGACGCGAC
ATGGAGGGAGCTGCTTTGCTGAAAATCTTTGTCGTCTGCATCTGGGTGCAGCAAAACCATCCAGGCTGGACAGTG
GCTGGACAGTTCCAAGAAAAGAAACGCTTCACTGAAGAAGTCATTGAATACTTCCAGAAGAAAGTTAGCCCAGTG
CATCTGAAAATCCTGCTGACTAGCGATGAAGCCTGGAAGAGATTGTGCGTGTGGCTGAATTGCCAGGGAAGAG
GCAGATGCTCTCTATGAAGCTCTGAAGAATCTTACACCATATGTGGCTATTGAGGACAAAGACATGCAGCAAAAA
GAACAGCAGTTTAGGGAGTGGTTTTTGAAGTTTCTCAAATCAGATGGAAGATTCAGGAGTCCATAGAAAGGCT
TCGTGTCAATTGCAATGAGATTGAAAAGGTCCACAGAGGCTGCGTCATCGCCAATGTGGTGTCTGGCTCCACTGG
CATCTGTCTGTCAATTGGCGTTATGTTGGCACCATTACAGCAGGGCTGAGCCTGAGCATTACTGCAGCTGGGGT
AGGGCTGGGAATAGCATCTGCCACGGCTGGGATCGCCTCCAGCATCGTGGAGAACACATACACAAGGTCAGCAGA
ACTCACAGCCAGCAGGCTGACTGCAACCAGCACTGACCAATTGGAGGCATTAAGGGACATTCTGCGTGACATCAC
ACCCAATGTGCTTTCTTTTGCACTTGATTTTGACGAAGCCACAAAAATGATTGCGAATGATGTCCATACACTCAG
GAGATCTAAAGCCACTGTTGGACGCCCTTTGATTGCTTGGCGATATGTACCTATAAATGTTGTTGAGACACTGAG
AACAGTGGGGCCCCCACC GGATAGTGAGAAAAGTAGCCCGGAACCTGGGCAAGGCCACTTCAGGTGTCCTTGT
TGTGCTGGATGTAGTCAACCTTGTGCAAGACTCACTGGACTTGCACAAGGGGGCAAAATCCGAGTCTGCTGAGTC
GCTGAGGCAGTGGGCTCAGGAGCTGGAGGAGAATCTCAATGAGCTCACCCATATCCATCAGAGTCTAAAAGCAGG
CTAGGCCCAATTGTTGCGGGAAGTCAGGGACCCCAAACGGAGGGACTGGCTGAAGCCATGGCAGAAGAAGCTGGA
TTGTGAAGATTTTATGGACATTTATTAGTTCCCCAAATTAATACTTTTATAATTTCTATGCCTGTCTTTACCGC
AATCTCTAAACACAAATTTGTGAAGATTTTATGGACACTGATCACTTCCCAATCAATACCCTTGTGATTTCTTAT
GCCTGTCTTTACTTTAATCTCCTAATCCTGTGCTGAGCTGAGGAGGATGTATGTACCTCAGGACCATGTGATAATTG
CGTTAACTGCACAAATTTGTAGAGCATGTGTGTTTGAACAATATGAAATCTGGGCACCTTGAAAAAGAACAGGAT
AACAGCAATTGTTTCAAGGAATAAGAGAGATAACCTTAAACTCTGACCAACAGTGAGCCTGGTGGAACAGAGTCAT
ATTTCTCTTTCTTTCAAAAGCAAAATGGGAGAAATATCGCTGAATTCCTTTTCTCAGCAAGGAACATCCCTGAGAAA
GAGAATGCACCCCTGAGGGTGGGTCTATAAATGGCCTCCTTGGGTGTGGCCATCTTCTATGGTCGAGACTGTAGG
GATGAAATAAACCCTGCTCTCCCATAGCGCTCCCAGGCTTATTAGGAAGAGGAAATCCCGCCTAATAAATTTTG
GTCAGACCGGTTGCTCTCAAAACCTGTCTCCTGATAAGATGTTATCAATGACAATGGTGCCCGAAACCTCATT
GCAATTTTAAATTTCTCCCCGCTCTGTGTTCTGTGATCTCGCCCTGCCTCCACTTGCCTTGTGATATTCTATTA
CCTTGTGAAGTAGGTGATCTTTGTGACCCACACCCACACCTATTATACACTCCCTCCCTTTTGAAAGTCCCT
AATAAAAACTTGCTGGTTTTGCGGCTTGTGAGGCATCAGGAACCTACCGATGTGTGATGTCTCCCTGGACACC
TAGCTTTAAATTTCTCTCTTTTGTACTCTGTGCCTTTATTTCTCAAACCGGCCAACACTTAGGGAAAAATAGAAA
AGAACCTACGTGACCATCGGGGAGGTTCCTCGATACCAATGACCCAGAGCAGTGACGCCACCAGGGAAGGTG
AGCCAGACACAGGCCGGGACAAAACGCAGACATTTTTTAGGGGAATAAAGAGGGCGAGGTAAAGTTTATGGAAC
CAGTGTTAGGAACCTTGGCATCTGTAGCTGAGCACAGCAGGGGAGGGGTTACTCAAGATGGCAAGTGCGCCAAGG
AGAAGGCAGAAATGCTGGGGCCTGGAATAAGGGAGGAGAGGGGACTGGAGAGTGTGGGGAATGGAAAGAAGCAGT
TTACTCTAGACTAAAGAGTATATTGGGGGAGGAAGAGAGGGAGGCACGTAGGAACAAGCAATGAGAAGACCAGGA
AAAGAAAGAGCTGAAAATGGAGAAAGCCACAGTTAGAATGTTGGATACAGGAGAAGAAACAGCGGCTCCACTAA
AGACCCGCCCCCGGTTGGATGTCTTCCAAGAATGGAATCCTTCCCTGGTGATGGTCTCTCACCTGTCTTACC
AGCATCCACTCTCCCTTGTCTCCCGGGGTGTATCTGAGTCAGCCAGTGGCTTCTTGATGATGGTGGTGGTGGT
TGTAAGTGTGACAGGTCCCTTTAGGTTATTTAAGGGTGCATGTCCCTGCTTGAACCTGAAGCCGGGTAATGA
GCCATTTCCATGGTGGCAGCTGAGGACCAGGTGTCTCTGAGAATCCAACATCCTGGAGAGTATCTGAGAACCA
ACCAAGTAAAGTCTCGTTGCTCATATATAGTAGACAAAGAGCCAGAAAATTAAGTGAAGAGCAGTTTAGACATT
GGGGGAGGCTGGATCTCTCGAGCTGTCTTGTGAGTGCCCTGTGTGTAAGTCCTAATAAACTTAGCTACTCGCCA

6527/6881
FIGURE 6025A

ATGGCACAGCAAGCTGCCGATAAGTATCTCTATGTGGATAAAAACTTCATCAACAATCCGCTGGCCCCAGGCCGAC
TGGGCTGCCAAGAAGCTGGTATGGGTGCCTTCCGACAAGAGTGGCTTTGAGCCAGCCAGCCTCAAGGAGGAGGTG
GGCGAAGAGGCCATCGTGGAGCTGGTGGAGAATGGGAAGAAGGTGAAGGTGAACAAGGATGACATCCAGAAGATG
AACCCGCCCCAAGTTCTCCAAGGTGGAGGACATGGCAGAGCTCACGTGCCTCAACGAAGCCTCGGTGCTGCACAAC
CTCAAGGAGCGTTACTACTCAGGGCTCATCTACACCTATTAGGCCTGTTCTGTGTGGTTCATCAATCCTTACAAG
AACCTGCCCATCTACTCTGAAGAGATTGTGGAAATGTACAAGGGCAAGAAGAGGCACGAGATGCCCCCTCACATC
TATGCCATCACAGACACCGCCTACAGGAGTATGATGCAAGACCGAGAAGATCAATCCATCTTGTGCACTGGTGAA
TCTGGAGCTGGCAAGACGGGAGAACACCAAGAAGGTCTCCAGTATCTGGCGTACGTGGCGTCTCGCACAAAGAGC
AAGAAGGACCAGGGCGAGCTGGAGCGGCAGCTGCTGCAGGCCAACCCCATCCTGGAGGCCTTCGGGAACGCCAAG
ACCGTGAAGAATGACAACCTCCTCCCGCTTCGGCAAATTCATTGCGATCAACTTTGATGTCAATGGCTACATTGTT
GGAGCCAACATTGAGACTTATCTTTTGGAGAAATCTCGTGCTATCCGCCAAGCCAAGGAAGAACGGACCTTCCAC
ATCTTCTATTATCTCCTGTCTGGGGCTGGAGAGCACCTGAAGACCGATCTCCTGTTGGAGCCGTACAACAAATAC
CGCTTCTGTCCAATGGACACGTCACCATCCCCGGGCAGCAGGACAAGGACATGTTCCAGGAGACCATGGAGGCC
ATGAGGATTATGGGCATCCCAGAAGAGGAGCAAATGGGCCTGCTGCGGGTCATCTCAGGGGTCTTCAGCTCGGC
AACATCGTCTTCAAGAAGGAGCGGAACACTGACCAGGCGTCCATGCCCGACAACACAGCTGCCAAAAGGTGTCC
CATCTCTTGGGTATCAATGTGACCGATTTCACCAGAGGAATCCTCACCCCGCGCATCAAGGTGGGACGGGATTAC
GTCCAGAAGGCGCAGACTAAAGAGCAGGCTGACTTTGCCATCGAGGCTTTGGCCAAGGCGACCTATGAGCGGATG
TTCCGCTGGCTGGTGTGCGCATCAACAAGGCTCTGGACAAGACCAAGAGGCAGGGCGCCTCCTTCATCGGGATC
CTGGACATTGCCGGCTTCGAGATCTTTGATCTGAACTCGTTTGAGCAGCTGTGCATCAATTACCAATGAGAAG
CTGCAGCAGCTCTTCAACCACACCATGTTTCATCTGGAGCAGGAGGAGTACCAGCGCGAGGGCATCGAGTGGAAC
TTCATCGACTTTGGCCTCGACCTGCAGCCCTGCATCGACCTCATTGAGAAGCCAGCAGGCCCCCGGGCATTCTG
GCCCTGCTGGACGAGGAGTGCTGGTTCCCCAAAGCCACCGACAAGAGCTTCGTGGAGAAGGTGATGCAGGAGCAG
GGCACCCACCCCAAGTTCCAGAAGCCCAAGCAGCTGAAGGACAAAGCTGATTTCTGCATTATCCACTATGCCGGC
AAGGTGGATTACAAAGCTGACGAGTGGCTGATGAAGAACATGGATCCCTGAATGACAACATCGCCACACTGCTC
CACCAGTCTCTGACAAGTTTGTCTCGGAGCTGTGGAAGGATGTGGACCGCATCATCGGCCTGGACCAGGTGGCC
GGCATGTGCGAGACCGCACTGCCCGGGGCTTCAAGACGCGGAAGGGCATGTTCCGCACTGTGGGGCAGCTTTAC
AAGGAGCAGCTGGCCAAGCTGATGGCTACGCTGAGGAACACGAACCCCAACTTTGTCCGCTGCATCATCCCCAAC
CACGAGAAGAAGGCCGGAAGCTGGACCCGCATCTCGTGCTGGACCAGCTGCGCTGCAACGGTGTTCTCGAGGGC
ATCCGTATCTGCCGCCAGGGCTTCCCCAACAGGGTGGTCTTCCAGGAGTTTCGGCAGAGATATGAGATCCTGACT
CCAAACTCCATTCCCAAGGGTTTCATGGACGGGAAGCAGGCGTGCGTGCTCATGATAAAAGCCCTGGAGCTCGAC
AGCAATCTGTACCGCATTGGCCAGAGCAAAGTCTTCTTCCGTGCCGGTGTGCTGGCCCCACCTGGAGGAGGAGCGA
GACCTGAAGATCACCGACGTCATCATAGGGTTCCAGGCCTGCTGCAGGGGCTACCTGGCCAGGAAAGCATTGACC
AAGCGGCAGCAGCAGCTTACCGCCATGAAGGTCTCCAGCGGAAGTGCCTGACCTGAAGCTGCGGAAGTGG
CAGTGGTGGCGGCTCTTACCAAGGTCAAGCCGCTGCTGCAGGTGAGCCGGCAGGAGGAGGAGATGATGGCCAAG
GAGGAGGAGCTGGTGAAGGTGAGAGAGAAGCAGCTGGCTGCGGAGAACAGGCTCACGGAGATGGAGACGCTGCAG
TCTCAGCTCATGGCAGAGAAATTGCAGCTGCAGGAGCAGCTCCAGGCAGAAACCGAGCTGTGTGCCGAGGCTGAG
GAGCTCCGGGCCCCGCTGACCGCCAAGAAGCAGGAATTAGAAGAGATCTGCCATGACCTAGAGGCCAGGGTGGAG
GAGGAGGAGGAGCGCTGCCAGCACCTGCAGGCGGAGAAGAAGAAGATGCAGCAGAACATCCAGGAGCTTGAGGAG
CAGCTGGAGGAGGAGGAGAGCGCCCGCAGAAGCTGCAGCTGGAGAAGGTGACCACCGAGGCGAAGCTGAAAAAG
CTGGAGGAGGAGCAGATCATCTGGAGGACCAGAACTGCAAGCTGGCCAAGGAAAAGAACTGCTGGAAGACAGA
ATAGCTGAGTTACACCAACCTCACAGAAGAGGAGGAGAAATCTAAGAGCCTCGCCAAGCTCAAGAACAAGCAT
GAGGCAATGATCACTGACTTGGAAGAGCGCCTCCGCAGGGAGGAGAAGCAGCGACAGGAGCTGGAGAAGACCCGC
CGGAAGCTGGAGGGAGACTCCACAGACCTCAGCGACCAGATCGCCGAGCTCCAGGCCCAGATCGCGGAGCTCAAG
ATGCAGCTGGCCAAGAAAGAGGAGGAGCTCCAGGCCGCCCTGGCCAGAGTGGAAGAGGAAGCTGCCCAGAAGAAC
ATGGCCCTCAAGAAGATCCGGGAGCTGGAATCTCAGATCTCTGAACTCCAGGAAGACCTGGAGTCTGAGCGTGCT
TCCAGGAATAAAGCTGAGAAGCAGAAACGGGACCTTGGGGAAGAGCTAGAGGCTCTGAAAACAGAGTTGGAGGAC
ACGCTGGATTCCACAGCTGCCCAGCAGGAGCTCAGGTCAAACGTGAGCAGGAGGTGAACATCCTGAAGAAGACC
CTGGAGGAGGAGGCCAAGACCCACGAGGCCAGATCCAGGAGATGAGGCAGAAGCACTCACAGGCCGTGGAGGAG

6528/6881
FIGURE 6025B

CTGGCGGAGCAGCTGGAGCAGACGAAGCGGGTGAAAGCAAACCTCGAGAAGGCAAAGCAGACTCTGGAGAACGAG
CGGGGGGAGCTGGCCAACGAGGTGAAGGTGCTGCTGCAGGGCAAAGGGGACTCGGAGCACAAGCGCAAGAAAGTG
GAGGCGCAGCTGCAGGAGCTGCAGGTCAAGTTCAACGAGGGAGAGCGCGTGCGCACAGAGCTGGCCGACAAGGTC
ACCAAGCTGCAGGTGGAGCTGGACAACGTGACCGGGCTTCTCAGCCAGTCCGACAGCAAGTCCAGCAAGCTCACC
AAGGACTTCTCCGCGCTGGAGTCCCAGCTGCAGGACACTCAGGAGCTGCTGCAGGAGGAGAACC GG CAGAAGCTG
AGCCTGAGCACCAAGCTCAAGCAGGTGGAGGACGAGAAGAATTCTTCCGGGAGCAGCTGGAGGAGGAGGAGGAG
GCCAAGCACAACCTGGAGAAGCAGATCGCCACCCTCCATGCCCAGGTGGCCGACATGAAAAAGAAGATGGAGGAC
AGTGTGGGGTGCTTGGAACTGCTGAGGAGGTGAAGAGGAAGCTCCAGAAGGACCTGGAGGGCCTGAGCCAGCGG
CACGAGGAGAAGGTGGCCGCTACGACAAGCTGGAGAAGACCAAGACGCGGCTGCAGCAGGAGCTGGACGACCTG
CTGGTGGACCTGGACCACCAGCGCCAGAGCGCGTGCAACCTGGAGAAGAAGCAGAAGAAGTTTGACCAGCTCCTG
GCGGAGGAGAAGACCATCTCTGCCAAGTATGCAGAGGAGCGCGACCGGGCTGAGGCGGAGGCCCGAGAGAAGGAG
ACCAAGGCTCTGTGCTGGCCCGGGCCCTGGAGGAAGCCATGGAGCAGAAGGCGGAGCTGGAGCGGCTCAACAAG
CAGTTCGCGACGGAGATGGAGGACCTTATGAGCTCCAAGGATGATGTGGGCAAGAGTGTCCACGAGCTGGAGAAG
TCCAAGCGGGCCCTAGAGCAGCAGGTGGAGGAGATGAAGACGCAGCTGGAAGAGCTGGAGGACGAGCTGCAGGCC
ACCGAAGATGCCAAGCTGCGGTTGGAGGTCAACCTGCAGGCCATGAAGGCCAGTTCGAGCGGGACCTGCAGGGC
CGGGACGAGCAGAGCGAGGAGAAGAAGAAGCAGCTGGTCAGACAGGTGCGGGAGATGGAGGCAGAGCTGGAGGAC
GAGAGGAAGCAGCGCTCGATGGCAGTGGCCGCCCCGAAGAAGCTGGAGATGGACCTGAAGGACCTGGAGGCGCAC
ATCGACTCGGCCAACAAAGAACC GGGACGAAGCCATCAAACAGCTGCGGAAGCTGCAGGCCCAGATGAAGGACTGC
ATGCGCGAGCTGGATGACACCCGCGCCTCTCGTGAGGAGATCCTGGCCCAGGCCAAAGAGAACGAGAAGAAGCTG
AAGAGCATGGAGGCCGAGATGATCCAGTTGCAGGAGGAAGTGGCAGCCGCGGAGCGTGCCAAGCGCCAGGCCAG
CAGGAGCGGGATGAGCTGGCTGACGAGATCGCCAACAGCAGCGGCAAAGGAGCCCTGGCGTTAGAGGAGAAGCGG
CGTCTGGAGGCCCGCATCGCCAGCTGGAGGAGGAGCTGGAGGAGGAGCAGGGCAACACGGAGCTGATCAACGAC
CGGCTGAAGAAGGCCAACCTGCAGATCGACCAGATCAACACCGACCTGAACCTGGAGCGCAGCCACGCCCAGAAG
AACGAGAATGCTCGGCAGCAGCTGGAACGCCAGAACAAGGAGCTTAAGGTCAAGCTGCAGGAGATGGAGGGCACT
GTCAAGTCCAAGTACAAGGCCTCCATCACCGCCCTCGAGGCCAAGATTGCACAGCTGGAGGAGCAGCTGGACAAC
GAGACCAAGGAGCGCCAGGCAGCCTGCAAACAGGTGCGTCGGACCGAGAAGAAGCTGAAGGATGTGCTGCTGCAG
GTGGATGACGAGCGGAGGAACGCCGAGCAGTACAAGGACCAGGCCGACAAGGCATCTACCCGCTGAAGCAGCTC
AAGCGGCAGCTGGAGGAGGCCGAAGAGGAGGCCAGCGGGCCAACGCCTCCCGCCGAAACTGCAGCGCGAGCTG
GAGGACGCCACTGAGACGGCCGATGCCATGAACCGCGAAGTCAGCTCCCTAAAGAACAAGCTCAGGCGCGGGGAC
CTGCCGTTTGTGCTGCCCGCCGAATGGCCCCGAAAGGCGCCGGGGATGGCTCCGACGAAGAGGTAGATGGCAAA
GCGGATGGGGCTGAGGCCAACCTGCCGAATAA

6529/6881
FIGURE 6026

MAQQAADKYLYVDKNFINNPLAQADWAAKKLVWVPSDKSGFEPASLKEEVGEEAIVELVENGKKVKVNKDDIQKM
NPPKFSKVEDMAELTCLNEASVLHNLKERYYSGLIYTYSGLFCVVINPYKNLP IYSEEIVEMYKGKKRHEMPPHI
YAITDTAYRSMQDREDQSILCTGESGAGKTENTKKVIQYLAYVASSHKSKKDQGELERQLLQANPILEAFGNAK
TVKNDNSSRFGKFI RINFVDVNGYIVGANIETYLLEKSRAIRQAKEERTFHFIFYLLSGAGEHLKTDLLLEPYNKY
RFLSNGHVTIPGQQDKDMFQETMEAMRIMGIP EEEQMGLLRVISGVQLGNIVFKKERNTDQASMPDNTAAQKVS
HLLGINVTDFTRGILTPRIKVGRDYVQKAQTKEQADFAIEALAKATYERMFRWLVL RINKALDKTKRQGASFIGI
LDIAGFEIFDLNSFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGLDLQPCIDLIEKPAGPPGIL
ALLDEECWFFPKATDKSFVEKVMQE QGTHPKFQKPKQLKDKADFCIIHYAGKVDYKADEWLMKNMDPLNDNIATLL
HQSSDKFVSELWKD VDRIGLDQVAGMSETALPGAFKTRKGMFRTVGQLYKEQLAKLMATLRNTNPNFVRCIIPN
HEKKAGKLDPHLVLDQLRCNGVLEGIRICRQGF PNRVVFQEFQRYEILTPNSIPKGFMDGKQACVLMIKALELD
SNLYRIGQSKVFFRAGVLAHLEERDLKITDVIIGFQACCRGYLARKAFAKRQQQLTAMKVLQRNCAAYLKL RNW
QWWRLFTKVKPLLQVSRQEEEMMAKEEELVKVREKQLAAENRLTEMETLQSQLMAEKLQLQEQLQAETELCAEAE
ELRARLTAKKQEELEEICHDL EARVEEEEEERCQHLOAEKKKMQQNIQELEEQL EEEESARQKLQLEKVTTEAKLKK
LEEEQIILEDQNKLAKEKKLLEDRIA EFTTNLTEEEEEKSKSLAKLKNKHEAMITDLEERLRREEKQRQELEKTR
RKLEGDSTDLSQIAELQAQIAELKMQLAKKEEELQAALARVEEEAAQKNMALKKIRELESQISELQEDLESERA
SRNKA EKQKRD LGEELEALKTELED TLDSTAAQQELRSKREQEVN ILKKTLEEEAKTHEAQIQEMRQKHSQAVEE
LAEQLEQTKRVKANLEKAKQTL ENER GELANEVKVLLQGGDSEHKRKKVEAQLQELQVKFNEGERV RTELADKV
TKLQVELDNVTGLLSQSDSKSSKLT KD FSALESQ LQDTQELLQEENRQKLSLSTKLKQVEDEKNSFREQL EEEEE
AKHNLEKQIATLHAQVADMKKKMEDSVGCLETAEEVKRKLQKDLEGLSQRHEEKVAAYDKLEKTKTRLQQELDDL
LVLDLDHQRSACNLEKKQKKFDQLLAE EKTISAKYAEERDRAEAEAREKETKALS LARALEEAMEQKAELERLNK
QFRTEMEDLMSSKDDVGKSVHELEKSKRALEQQVEEMKTQLEEELEDELQATEDAKLRLEVNLQAMKAQFERDLQ
RDEQSEEKKKQLVRQVREMAELEDERKQRSMAVAARKKLEMDLKDLEAHIDSANKNRDEAIKQLRKLOAQMKDC
MRELDDTRASREEILAQAKENEKKLKSMEAE MIQLQEELAAAERAKRQAQQRDELADEIANSSGKGALALEEKR
RLEARIAQLEEELEEEQGNTELINDRLKKANLQIDQINTDLN LERSHAQKNENARQQLERQNKELVKVLQEMEGT
VKSKYKASITALEAKIAQLEEQLDNETKERQAACKQVRRTEKKLKDVL LQVDDERRNAEQYKDQADKASTRLKQL
KRQLEEAEEEAQRANASRRKLQRELE DATETADAMNREVSS LKNKLRRGDLPFVVP RRMARKGAGDGSDEEVDGK
ADGAEAKPAE

6530/6881
FIGURE 6027

GAATTCGGCACGAGCTAACGCGGTCCCCGGCACGCACCATCTGTTGCCATCCCGGCCGGCCGAGGCCATTGCAGA
TTTTGGAAGATGGCAAAGTTCATGACACCCGTGATCCAGGACAACCCCTCAGGCTGGGGTCCCTGTGCGGTTCCC
GAGCAGTTTCGGGATATGCCCTACCAGCCGTTTCAGCAAAGGAGATCGGCTAGGAAAGGTTGCAGACTGGACAGGA
GCCACATACCAAGATAAGAGGTACACAAATAAGTACTCTCTCAGTTTGGTGGTGGAAAGTCAATATGCTTATTTT
CATGAGGAGGATGAAAGTAGCTTCCAGCTGGTGGATACAGCGCGCACACAGAAGACGGCCTACCAGCGGAATCGA
ATGAGATTTGCCAGAGGAACCTCCGCAGAGACAAAGATCGTTCGGAACATGTTGCAGTTCAACCTGCAGATCCTG
CCTAAGAGTGCCAAACAGAAAGAGAGAGAACGCATTTCGACTGCAGAAAAAGTTCCAGAAACAATTTGGGGTTAGG
CAGAAATGGGATCAGAAATCAGAAACCCCCGAGACTCTTCAGTTGAAAGTTCGTAGTGATTGGGAAGTGAAAGAG
GAAATGGATTTTCCTCAGTTGATGAAGATGCGCTACTTGGAAGTATCAGAGCCACAGGACATTGAGTGTGTGGG
GCCCTAGAATACTACGACAAAGCCTTTGACCGCATCACACGAGGAGTGAGAAGCCACTGCGGAGCATCAAGCGC
ATCTTCCACACTGTCACCACCACAGACGACCCTGTCATCCGCAAGCTGGCAAAAACCTCAGGGGAATGTGTTTGCC
ACTGATGCCATCCTGGCCACGCTGATGAGCTGTACCCGCTCAGTGTATTCTGGGATATTGTCGTCCAGAGAGTT
GGGTCCAAACTCTTCTTTGACAAGAGAGACAACCTCTGACTTTGACCTCCTGACAGTGAGTGAGACTGCCAATGAG
CCCCCTCAAGATGAAGGTAATTCCTTCAATTCACCCCGCAACCTGGCCATGGAGGCAACCTACATCAACCACAAT
TTCTCCCAGCAGTGCTTGAGAATGGGGAAGGAAAGATACAACCTCCCCAACCCAAACCCGTTTGTGGAGGACGAC
ATGGATAAGAATGAAATCGCCTCTGTTGCGTACCGTTACCGCAGGTGGAAGCTTGGAGATGATATTGACCTTATT
GTCCGTTGTGAGCACGATGGCGTCATGACTGGAGCCAACGGGGAAAGTGTCTTCATCAACATCAAGACACTCAAT
GAGTGGGATTCCAGGCACTGTAATGGCGTTGACTGGCGTCAGAAGCTGGACTCTCAGCGAGGGGCTGTCATTGCC
ACGGAGCTGAAGAACAACAGCTACAAGTTGGCCCGGTGGACCTGCTGTGCTTTGCTGGCTGGATCTGAGTACCTC
AAGCTTGGTTATGTGTCTCGGTACCACGTGAAAGACTCCTCACGCCACGTCATCCTAGGCACCCAGCAGTTCAAG
CCTAATGAGTTTGCCAGCCAGATCAACCTGAGCGTGGAGAATGCCTGGGGCATTTTACGCTGCGTCATTGACATC
TGCATGAAGCTGGAGGAGGGCAAATACCTCATCCTCAAGGACCCCAACAAGCAGGTATCCGTGTCTACAGCCTC
CCTGATGGCACCTTCAGCTCTGATGAAGATGAGGAGGAAGAGGAGGAGGAAGAAGAGGAAGAAGAAGAGGAAGAA
ACTTAAACCAGTGATGTGGAGCTGGAGTTTGTCTTCCACCGAGACTACGAGGGCCTTTGATGCTTAGTGGAATG
TGTGTCTAAGTTGCTCTCTGACATTTAGCAGATGAAATAAAATATATATCTGTTTAGTCTTTTAAAAAAAAAAAA
AAAAAA

6531/6881
FIGURE 6028

MAKFMTFVIQDNPSGWGPCAVPEQFRDMPYQPFSGDRLGKVADWTGATYQDKRYTNKYSSQFGGGSQYAYFHEE
DESSFQLVDTARTQKTAYQRNRMRFQORNLRDKDRRNMLQFNLQILPKSAKQKERERIRLQKKFQKQFGVRQKW
DQKSQKPRDSSVEVRSDWEVKEEMDFPQLMKMRYLEVSEPQDIECCGALEYDKAFFDRITRSEKPLRSIKRIFH
TVTTTDDPVIRKLAKTQGNVFATDAILATLMSCTRSVYSWDIVVQRVGSKLFFDKRDNSDFDLLTVSETANEPPO
DEGNSFNSPRNLA MEATYINHNFSQQCLRMGKERYNFPNPNPFVEDDMDKNEIASVAYRYRRWKLGDDIDLIVRC
EHDGVMTGANGEVSFINIKTLNEWDSRHCNGVDWRQKLD SQRGAVIATELKNNSYKLARWTCCALLAGSEYLKLG
YVSR YHVKDSSRHVILGTQQFKPNEFASQINLSVENAWGILRCVIDICMKLEEGKYLILKDPNKQVIRVYSLPDG
TFSSDEDEEEEEEEEEEEEEET

6532/6881
FIGURE 6029

GGGGGGCGGGAGGAGGGGACAGCTGCGGGCGCGGGGAGGGGGCGCCGCGCCGCGGGGGCCATGGCGGAGCCAGGA
AGCCGGGAGTCCGAGACCCGGGCCCCGAGCCCGAGTGTGCGCGCC**ATGG**CCTTCGCCGCAGCTCTGCCGCGCGCTG
GTGTCGGCGCAATGGGTGGCGGAGGCGCTGCGGGCCCCGCGCGCTGGGCAGCCTCTGCAGCTGCTGGACGCCTCC
TGGTACCTGCCGAAGCTGGGGCGCGACGCGCGACGCGAGTTCGAGGAGCGCCACATCCCGGGCGCCGCTTTCTTC
GACATCGACCAGTGCAGCGACCGCACCTCGCCCTACGACCACATGCTGCCCGGGGCCGAGCATTTGCGGGAGTAC
GCAGGCCCGCTGGGCGTGGGCGCGGCCACCCACGTCGTGATCTACGACGCCAGCGACCAGGGCCTCTACTCCGCC
CCGCGCGTCTGGTGGATGTTCCGCGCCTTCGGCCACCACGCCGTGTCACCTGCTTCCCGCCGAGTTCGCGCTCAGCTCGACCCC
GCCTTCATCAAGACCTACGAGGACATCAAGGAGAACCTGGAATCCCGCGCTTCCAGGTGGTGGACTCCCAGGCC
ACTGGCAGGTTCGCGGGCACCGAGCCCCGAGACGGCATTGAACCTGGCCACATCCCAGGTACCGTGAAC
ATCCCCTTACAGACTTCCTGAGCCAGGAGGGGCTGGAGAAGAGCCCTGAGGAGATCCGCCATCTGTTCCAGGAG
AAGAAAGTGGACCTGTCTAAGCCACTGGTGGCCACGTGTGGCTCTGGCGTCACAGCCTGCCACGTGGCACTAGGG
GCCTACCTCTGCGGCAAGCCAGACGTGCCCATCTACGATGGCTCCTGGGTGGAGTGGTACATGCGCGCCCCGGCCC
GAGGATGTCATCTCAGAGGGCCGGGGGAAGACCCAC**TGA**AGCTGGGCAGGACACAGGCGAGCTCAGGTGATGCCG
GCCACCAGCAATGCCTGGCCTGGTAGCTCCGCTTCTGCTTTACCAAGAGAGTGTTCCTTCACTCAACTCAGGTG
GCATTTGGGGTGACATCTCAAAGGCCAGGAATTCCGTTGACTTGTTGGCTGCCAGTAGGGGCGGGAGGAAAGGCG
GAGGCGAGCCCTGGAGGAGGGAGGCCACAACCTCCGAGCTGCCACCTGGTGCTGAGCTGGGGCCCCGCCTCCTTT
CTGTTTTATTTT**GAGGAAATAAAATAACCAAGTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA**

6533/6881
FIGURE 6030

MAS PQLCRALVSAQWVAEALRAPRAGQPLQLLDASWYLPKLGRDARREFEERHIPGAAFFDIDQCSDRTSPYDHM
LPGAEHFAEYAGRLGVGAATHVVIYDASDQGLYSAPRVWWMFRAFGHHAVSLLDGGLRHWLRQNLPLSSGKSQPA
PAEFRAQLDPAFIKTYEDIKENLESRRFQVVDSRATGRFRGTEPEPRDGIPEGHIPGTVNIPFTDFLSQEGLEKS
PEEIRHLFQEKKVDLSKPLVATCGSGVTACHVALGAYLCGKPDVFIYDGSWVEWYMRARPEDVISEGRGKTH

6534/6881

FIGURE 6031

GCGACTCTCCCGGGCTGCCAGCCGGGACGCGCGGCCGCCGCGCTGCAGACGACGAGTCCGCCCTCGTCCCGCGC
CCCCGGGGCTCGCGGAGCCAGGTCTCCACCTCTGGGCAGGAGAGTTGCCGACCACCTCGGGGGTGCTTTCTCTGC
GCTTGAACATCTATAGCTGCTTCTGAGGGGCTGGGAGCCGGGCCCCCTGGGAGAGACGAGCCATGAACCCCCACA
GCCTCTGCATTTGGGGACCTCACCTTAGGAGAGTGCCATTTACAGCTTCCGCCAGGGCAAAGGAGCTGAGCAGCC
ATCCCAAGCCCAGCCCACCTCCCTCCCCCGGGCCCCCTGGTAGGCATGGACTAGCAGCTGTGAGCAGCCAGAGCTGA
TGCCCCGGCCCCCAGGGGGGCGAGGGCGCCGCCACCATGAGCCTGGGCAAGCTCTCGCCTGTGGGCTGGGTGTCCA
GTTTACAGGGAAAGAGGCGGCTGACTGCAGACATGATCAGCCACCCACTCGGGGACTTCCGCCACACCATGCATG
TGGGCCGTGGCGGGGATGTCTTCGGGGACAGCTCCTTCCTCAGCAACCACGGTGGCAGCTCCGGGAGCAGCCATC
GCTCACCCCGCAGCTTCCCTGGCCAAGAAGCTGCAGCTGGTGGGAGGGTGGGGGCGCCCCCGGAGGATGGCAT
CTCCCCCTGCACCCTCCCCGGCTCCACCGCCATCTCCCCATCATCAAGAACGCCATCTCCCTGCCCCAGCTCA
ACCAGGCCGCTACGACAGCCTCGTGGTTGGCAAGCTCAGCTTCGACAGCAGCCCCACCAGCTCCACGGACGGCC
ACTCCAGCTACGGCCTGGACTCTGGGTTCTGCACCATCTCCCGCCTGCCCCGCTCGGAAAAGCCGCATGACCGAG
ACCGGGATGGTTCCTTCCCCTCTGAGCCCGGGCTTCGCCGCTCTGACTCTCTTGTCTTCCGCTGGACCTCG
ACCTTGGGCCCTCACTCCTCAGCGAGCTGCTAGGGGTCTAGAGCCTCCAGAAGCCCCTGCAGCTGAGACTCCAG
CCCCCGCTGCAAACCCCCCAGCCCCTACTGCAAACCCCACGGGTCTGCTGCAAACCCCCCAGCCACTACTGCAA
ACCCCCCAGCGCCTGCTGCAAACCCCTCAGCACCTGCCGCAACCCCCACGGGTCTGCTGCAAATCCCCCAGCCC
CTGCCGCAAGCTCCACACCCCATGGACACTGTCCCAATGGGGTAACAGCTGGGTTGGGCCCAGTGGCTGAGGTGA
AGTCCAGCCCAGTGGGAGGGGGTCCCCGAGGACCTGCTGGCCCTGCCCTCGGCAGGCACTGGGGAGCAGGCTGGG
ATGGCGGCCACCACTACCCAGAGATGGATGCGCGGCAGGAGCGGGTGGAGGTGCTGCCCCAAGCCCGGGCCTCCT
GGGAGAGCCTGGACGAAGAGTGGAGGGCGCCCCAGGCAGGCAGCAGGACCCAGTGCCAGCACAGTGCAAGCAA
ACACCTTTGAATTTGCGGATGCTGAGGAGGATGATGAGGTCAAGGTGTGAGGGGCTGGGGCACGGTCCCAGGGCC
CCACCTAGGTGCAGAGCCGGCCCCCTCACCTAACAGCTGGTTCCTACCAGACCGGAGAGGGGAGAAGTCATGTTGC
CCCTAAACCCCTCCCCACCTCTGCAGGACAGACATGGGAGGGAGGACAGGGAAGGCCAGGCTTGCTCTGGGACTT
TTATGCTCCCAGAGGCCCTGCCAACTGACCACCTCCCCCGACTGCCACTCTGGACCTAATAGCTGTTCTTAGG
CCCCACTCCATGCCACCCCCACCAGCTGGAGGACCCAGCCTCACAGTGTGTCTTTGTGCCAGACCAAGCGGCC
GTGGGGGGTGGGGGGCAGGGAGTGTACCACACAGGGCCATTGTCTCACCTCCCAAAGGGACCGCCTGCCCCCAGC
TCATCCCAGAGCGTCCCTGCTGCAACCCTGACAGCCGTCTCCAGGCCGCTTCCCCAACATCCCCGCCCCAGCCT
CCCTCTTACCCAGAAAGGTGAGGTATGACCTCCCGGGAGGAATCCACCTGCCTGTATACCCAGACTTGCCT
CTGGGGCCTGATTAAATAAGGCTGTTTTGAT

6535/6881
FIGURE 6032

GGGGGCGGGTGGCGGATGGAGCCCGCGATGGAGCCGGAGACTCTGGAGGCGCGAATCAATAGAGCCACGAACCCC
CTGAACAAGGAGCTCGACTGGGCCAGCATCAACGGCTTCTGCGAGCAGCTCAACGAGGACTTTGAGGGGCCTCCA
CTCGCCACCCGGCTGCTGGCCCAAGATCCAGTCCCCACAGGAGTGGGAGGCGATCCAGGCCTTGACGGTGCTG
GAAACATGCATGAAGAGCTGCGGCAAGCGGTTCCACGACGAAGTGGGCAAGTTCCGCTTTCTCAACGAGCTCATC
AAGGTCGTGTCTCCCAAGTATCTGGGCTCTCGGACATCGGAGAAGGTGAAGAACAAGATCTTGGAGCTCCTCTAC
AGCTGGACAGTGGGCCTGCCCCAGGAGGTGAAAATCGCAGAGGCCTACCAGATGCTAAAGAAGCAGGGGATTGTA
AAGTCCGACCCCAAGCTTCCAGATGACACTACCTTTCCCTTCTCTCCACGGCCGAAGAATGTGATCTTTGAA
GATGAGGAGAAAATCCAAGATGCTGGCCCGCTGCTGAAGAGCTCCCATCCCGAAGACCTCCGCGCAGCCAATAAG
CTCATCAAAGAGATGGTGCAGGAGGACCAGAAGCGGATGGAGAAGATCTCGAAGAGGGTGAATGCCATCGAGGAG
GTGAACAACAATGTGAACTGCTCACGGAGATGGTGTAGAGCCACAGCCAGGGCGGCGCAGCAGCTGGCAGCAGC
GAGGACCTCATGAAGGAAGTGTACCAGCGCTGTGAGCGGATGCGGCCACGCTCTTCCGACTGGCGAGTGACACA
GAGGACAATGATGAGGCCTTAGCGGAGATCCTGCAGGCCAATGACAACCTCAGGAGGTGATCAACCTGTATAAG
CAGCTGGTGCAGGGGTGAGGAGGTCAACGGTGTGCCACAGCCGGCTCCATCCCTGGGAGCACCTCGGCCCTGCTG
GATCTCTCAGGCCTGGATCTCCCGCTGCGGGCACCACTACCCAGCTATGCCACCCGCCCTGGCGAGCAGGCC
AGCCCTGAGCAGCCAGTGCCTCAGTTTCCCTGCTTGACGACGAGCTCATGTCTCTGGGCCTCAGTGACCCCA
CCCCCTTCAGGCCCAAGCCTGGATGGTACCGGATGGAACAGCTTCCAGTCTGTCGGATGCCACTGAGCCCCAGCC
CCTGCTCTGGCCCAGGCCCCCAGTATGGAAAGCCGACCCCCAGCGCAGACATCCCTGCCAGCAAGCAGCGGTCTG
GACGACCTAGACCTCCTGGGAAGACCCTCCTGCAGCAGTTCGCTGCCCGCGAATCCAGCAAGTGCAGGTGGGAG
AAGCAGCAGCCAACCCCCCGGCTCACACTCCGGGACCTGCAGAATAAGAGCAGCAGCTGCAGCTCCCCAGCTCC
AGCGCCACCAGCCTTCTCCACACCGTGTCCCCAGAGCCCCCAGGCCCTCCGCAGCAGCCCGTACCAACCGAGCTC
TCACTGGCCAGCATCACTGTGCCCTGGAGTCCATCAAACCCAGCAACATCCTGCCCGTGAAGTGTGTATGACCAG
CACGGCTTCCGCATCCTCTTCCATTTTGGCCGGGACCCACTGCCAGGGCGCTCCGACGTGCTGGTGGTGGTGGTT
TCCATGCTGAGCACCGCCCCCAGCCCATCCGCAACATCGTGTTCAGTCAAGTGTCCCAAGGTTATGAAGGTG
AAGCTGCAGCCACCCTCGGGCACGGAGCTGCCAGCTTTTAACCCCATCGTCCACCCCTCAGCAATCAGGAGTC
CTGCTGCTTGCCAACCCCCAGAAGGAGAAGGTTCCGCTTACAGCTCACCTTACCATGGGTGACCAGACC
TACAACGAGATGGGGGATGTGGACCAGTTCCCCCACCTGAAACCTGGGGTAGCCTCTAGAACAGAGGGGCTGGG
GAGAGGAAGGGGCAGAGGGACCGGTCACTGTCCAGCCTGGAGGGAGGCATTGGTGGCCAAGGACACCCTTTGTTG
CCCATGGCCATTACCCCCAGGCCTGGTGCTTCTCCCCACACCCCTGTAGGCCTCAAGTGAAGTCTTCCCCCTCCT
GCTCCGGCCCCCGCCCTGCTGAGCCAAACCCAGTAGGAGGCTGGGCCTGGGTTTGTGCCGCTGGGGTCTCCATCA
CCGGGACCTGGAGAGGGAGGGGCTGTGTAGCCTTGAAGAAGTGGGTGATGGGGAGGAAGCACAGCTGTTGGGG
AAGGGCCAGGACCTCAGGCCAGCCCCAACCCAGCTGGGGTGGGGTCTTCCCCACCTGTCTCTTATGCCTTATG
GGAAGGCCCAGCCATAACTCGGGGGCCATGCTGGAGCTGGGGACCAGCTTAGGCCTCCTCCATAGGAACCCAGTG
ACTGGGGGTGACGCCTACACCCAGCTATTTGCACTCTGGTGTGTGGTTTGACTCTGCTTTTCTTCCGGATTG
GCCCTGTGGTCACAGCCTCAGGGGGCAGGCTGGGGGAACCTCACCTGGCCCGTACTCCTGGGGGTTTCCCTTTG
CCATTGGGCCCCCTGAGGAGTGTGGGGGCTCAAGGGTAATGCCAGAGGCCCATGGCCCCAGCAGGGGGCTGTGG
GGCACCTAGAGTTCTCGGTGTGTCTCTTCATTTCATTGGCCTCTGCTGGGGCCTCCTATGGGTGTCTTACGTCTG
TCCATCCATCTGTCCGTGGTCAGAAGTGGGGTCAGTGTGTGAGTGAGAGCAGGAGTATTTATGAAAATAAACGT
CGTTTTTCTGGAAAAA

6536/6881
FIGURE 6033

MEPAMEPETLEARINRATNPLNKELDWASINGFCEQLNEDFEGPPLATRLLAHKIQSPQEWAIQALTVLETCMK
SCGKRFDHDEVGKFRFLNELIKVVSPKYLGSRTSEKVKNKILELLYSWTVGLPEEVKIAEAYQMLKKQGIVKSDPK
LPDDTTTFPLPPRPKNVIFEDEEKSKMLARLLKSSHPEDLRAANKLIKEMVQEDQKRMEKISKRVNAIEEVNNNV
KLLTEMVMHSQGGAAAGSSEDLMKELYQRCERMPTLFRLASDTEDEALAEILQANDNLTOVINLYKQLVRG
EEVNGDATAGSIPGSTSALLDLSGLDLPPAGTTYAMPTRPGEQASPEQPSASVSLDDELMSLGLSDPTPPSGP
SLDGTGWNSFQSSDATEPPAPALAQAPSMESRPPAQTSLPASSGLDDDLLGKTLLQQSLPPESQQVRWEKQQPT
PRLTLRDLQNKSSSCSSPSSSATSLHTVSPEPPRPQQPVPTLSLASITVPLESIKPSNILPVTVDQHGFR
LFHFARDPLPGRSDVLVVVSMSTAPQPIRNIVFQSAVPKVMKVKLQPPSGTELPANPIVHPSAITQVLLAN
PQKEKVRRLRYKLFTMGDQTYNEMGDVDQFPPPETWGS

6537/6881
FIGURE 6034

CTGCAGGTAGAACAGCGGCTGGAGCCGGCCAAGCGGGCAGCCCACAACATCCACAAGCGGCTGCAGGCCTGTCTG
CAGGGCCAGAGCGGGGCAGACATGGACAAGCGGGTGAAGAAGCTTCCCCTCATGGCTCTGTCCACCACGATGGCT
GAGAGCTTCAAGGAGCTGGACCCTGATTCCAGCATGGGGAAAGGCTTGGAGATGAGCTGTGCCATCCAGAATCAG
CTGGCCCGCATCCTGGCCGAGTTTGAGATGACCCTGGAGAGGGACGTCCTGCAGCCACTCAGCAGGCTGAGTGAG
GAGGAGCTGCCAGCCATCCTCAAACACAAGAAAAGCCTCCAGAAGCTCGTGTCCGACTGGAACACACTCAAGAGC
AGGCTCAGTCAGGCAACCAAGAATTGAGGCAGCAGTCAAGGCCTAGGAGGCAGCCCGGGTAGTCACAGCCATACG
ACCATGGCCAACAAGGTGGAGACGCTGAAGGAGGAGGAGGAGGAGCTGAAGAGGAAAGTGGAGCAATGCAGGGAC
GAGTACTTGGCTGACCTGTACCACTTTGTTACCAAGGAGGACTCCTATGCCAACTACTTTCATTCTCTCTGGAG
ATTGAGGCCGATTACCATCGCAGGTCAGTCTGCTGGACACAGCCCTGGCTGAGCTGAGGGAGAACCACGGC
CAAGCAGACCCTCCCCTTCGATGACAGCCACCCACTTCCCCAGGGTGTATGGGGTGTCTGCTGGCAACCCACCTG
CAAGAGCTGGGCCGGGAGATTGCCCTGCCCATCGAGGCCTGCGTCATGATGCTGCTTTCTGAGGGCATGAAGGAA
GAGGGTCTCTTCCGTCTGGCTGCTGGGGCCTCGGTGCTGAAGCGTCTCAAGCAGACAATGGCCTCGGACCCCCAC
AGCCTGGAGGAGTTCTGCTCCGACCCGCACGCTGTGGCAGGTGCCCTCAAGTCCTATCTGCGGGAGCTGCCAGAG
CCTCTGATGACCTTCGACCTCTATGATGACTGGATGAGGGCAGCCAGCCTGAAGGAGCCAGGGGCGCGGCTGCAG
GCCCTCCAAGAGGTGTGCAGCCGCTACCCCCCGAGAACCTCAGCAACCTCAGGTACCTGATGAAGTTCTGGCA
CGGCTGGCCGAGGAGCAGGAGGTGAACAAGATGACACCCAGCAACATCGCCATAGTCTGGGACCCAACTTGCTG
TGGCCACCTGAGAAAGAAGGGGACCAGGCCAGCTGGATGCAGCCTCCGTGCTTCCATCCAGGTGGTGGGCGTC
GTCGAGGCGCTGATCCAGAGCGCAGACACCCTCTTCCCTGGAGACATCAACTTCAACGTGTGAGGCCTCTTCTCA
GCTGTTACCCTCCAGGACACAGTCAGTGACAGGCTGGCCTCTGAGGAACTTCCGTCCACTGCCGTGCCACCCCCA
GCCACCACCCCGGCTCCGGCTCCGGCTCCAGCTCCAGCTCCGGCCCCAGCCTTGGCTTCAGCAGCTACCAAGGAA
AGGACAGAGTCTGAGGTGCCTCCAGACCAGCCTCCCCCAAGGTCACCAGGAGTCCCCCGGAGACAGCTGCCCCCA
GTGGAGGACATGGCTCGGAGGACCAAGCGCCCGGCGCCAGCCCGGCCACCATGCCGCCCCCAGGTCTCCGGC
TCCCGCTCCTCCCCCTCCAGCCCGCCCTTGCCCCCTGGCTCTGGCAGCCCTGGGACCCCCCAAGCCCTGCCCCGA
CGTCTGGTTGGCAGCAGCCTCCGAGCCCCCACAGTGCCACCCCCGTTACCCCCCACACCCCTCAGCCTGCCCGG
CGCCAAAGCGGCGTTACCCAGCCTCCCCAGCCCGGCTCCCCAGGTCCAGCCTCCCCAGCCAGTCTCTTTG
AGTAACCCCTGCACAGGTGGACCTGGGGGCTGCCACAGCAGAGGGAGGAGCCCTGAGGCTATCAGTGGGGTCCCC
ACTCCCCCAGCTATCCCCCTCAGCCCCGCCCCAGGAGCCTTGCTCAGAGACCAACTGAGTGGCTGGTTTCTCC
CTAAGCAGCCCTCAGCACCCCTCCCTCCCCACCTGGCCCTCCAGGACAGCTCTCGCCCCCACAAAGGGGCAT
GGGCCTCCAGCCTTTGCCACAAGTGCCTCAGTGCCCACTGGGTGCGCCCCCATGGCCAGGAGGGCTCAGGACAA
TCCTCTATTTCTGACCTTTTCTCGTCCACCCTGGGCTTGGGGACCCCCCACCAGTCTTCACTCTCCGGCA
GGTCTTAGGGGAGCCACCGGAAGGAAGGAGAGGTTTGCCTGCTCCTACGGGACTGATTCTTCTTGGCCGACATG
TTTTTTGTAAGGCTGGTAAATAAATTATTTTGGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCGGG

6538/6881
FIGURE 6035

MAESFKELDPDSSMGKALEMSCAIQNQLARILAEFEMTLERDVLQPLSRLSEEELPAILKHKKSLOKLVSDWNTL
KSRLSQATKNSSGSSQGLGGSPGSHSHTTMANKVETLKEEEEELKRKVEQCRDEYLADLYHFVTKEDSYANYFIRL
LEIQADYHRRSLSSLDALAELENHGQADHSPSMTATHFPRVYGVSLATHLQELGREIALPIEACVMMLLSEGM
KEEGLFRLAAGASVLKRLKQTMASDPHSLEEFCSDPHAVAGALKSYLRELPEPLMTFDLYDDWMRAASLKEPGAR
LQALQEVCSRPPENLSNRLRYLMKFLARLAEEQEVNKMTPSNIAIVLGNLLWPPEKEGDQAQLDAASVSSIQVV
GVVEALIQSADTLFPGDINFNVSGLFSAVTLQDTVSDRLASEELPSTAVPTPATTPAPAPAPAPAPAPALASAAT
KERTESEVPPRPASPKVTRSPPETAAPVEDMARRTKRPAPARPTMPPPQVSGSRSSPPAPPLPPGSGSPGTPQAL
PRRLVGSSLRAPTPVPPPLPPTPPQARRQSRSPASPSASPGPASPSVSLSNPAQVDLGAATAEGGAPEAISG
VPTPPAIPPQPRPRSLASETN

6539/6881
FIGURE 6036

GGCACGAGGGCCGTGCCCCGGAGAGAGCGCGGGCGCGGGAGGCCGGCGGGCCGGCCGGCTGCATGGCGCGCTGCGA
GAGGCTGCGCGGAGCGGGCCCTGCGCGACGTGCTGGGCCGGGCGCAGGGGGTCCTGTTTCGACTGTGACGGGGTGCT
GTGGAACGGCGAGCGCGCCGTGCCGGGCGCCCCGGAGCTGCTGGAGCGGCTGGCGCGGGCCGGCAAGGCGGCTCT
GTTTGTGAGCAACAACAGCCGGCGCGCGCGGGCCCGAGCTGGCCCTGCGCTTCGCGCGCCTCGGCTTCGGGGGGCT
GCGCGCCGAGCAGCTCTTCAGCTCCGCGCTGTGCGCCGCGCGCCTGCTGCGCCAGCGCCTGCCGGGGCTCCGGA
CGCGCCGGGCGCCGTGTTTCGTGCTGGGCGGCGAGGGGGCTGCGCGCCGAGCTGCGCGCCGCGGGGGCTGCGCCTGGC
CGGGGACCCGAGCGCGGGGGACGGCGCGGGCCCCGCGCGTGC CGCCGTGCTTGTGGGCTACGACGAGCACTTCTC
CTTCGCCAAGCTGAGGGAGGCGTGCGCGCACCTGCGCGACCCCGAGTGCCCTACTCGTGGCCACCGACCGTGACCC
ATGGCACCCGCTGAGCGACGGCAGCCGGACCCCTGGCACCGGGAGCCTGGCCGCTGCAGTGGAGACAGCCTCGGG
ACGCCAGGCCCTGGTGGTGGGCAAGCCAGCCCCCTACATGTTTCGAGTGCATCACGGAGAAGTTTACGATCGACCC
CGCACGCACGCTTATGGTGGGTGACCGCTGGAGACCGACATCCTCTTTGGCCACCGCTGCGGCATGACCACTGT
GCTCACGCTCACAGGAGTCTCCCGCTAGAAGAGGGCCAGGCCTACCTAGCGGGCCGGCCAGCACGACCTCGTGCC
CCATTACTATGTGGAGAGCATCGCAGACTTGACAGAGGGGTGGAGGACTGAGCCCACTGCACCTGCAGCCACAG
GCCCACCCCTCCCCACTCCCTGATCCCGTAGGTGGAGGCGATGGGTCACGAGCCATGTTAAGCACAACCGGCTCC
TTGGTCCAGTTCTGCACCGGGGTGGGGCTGGGACCCGGGGAAGGTTTGAGGGCCCTTGCAACCCCTCCCAGCAG
TGGCTGGGCACTCTTTGCTGCCCCAGAAGCTGGTCCCCTATGGATTTCATCTTGGCCTGACCCAGCCAGGTGGCCT
TATTTCTTCCCTGTCACCTCCCTCCTTGAAATCTGGGCCCTGGTGCCTGCTGAAGATTCCCTCTATCCCTGAGT
ACTTAGTCTTCTCCCCCTTCCCTGGGGCTTCTAGAGCTCTCTTGCCCCCTCAGGTCTTGGCCCTTGGGTCTTGT
CAACCAGAGGTCTAGGGAACCACAACCCTTATTGTCCTGGGTGGACCAATCCAAAGGCTAAGTGATAGTGACTCA
TCAATGTTGGGTCTGTGGGGTACCAGTTTAGGTTCTAAGTAATAGTGACCCTTTCACGTCTTGGAGCCCGAGT
GGACCAATCGGAAGCCTAAGTGACGATGACCCTCGCATGTCCTAGGTCCCTGGGTGGACCCATCAGGACCCCAAG
TGATAGTGACCCAGTGGTCTTTTAGATCCTCAGTAGAACAGTCCAGAAAGCCTGAGAGACAGTGGCCCTTGATAA
TCTGGGTCTCACGGGACCAGCTAGGGGTCCAGGTTTCAGTCAGTAAATAAGAGTGGTCCACGTCTTAAAGACACC
TCTCCTTTACAAAGACTTGTGATGCTCTGGGGCTTCTGTGGCCAAGCCCCACCCTTTCCTGGTCATGGTACCCGT
ACAGCGTTGATGGCCACAGCTCGAAGGGGGGCTTTTCGTGTCCCCCTGTGCGGTCAGTGTTTTTCAGTACCACCTCT
CTCCCGTGCCCACTTGGCTATTTACTTATTTATTTATTGTGTGCCAGTGATGGTGGGTGGGGCTGGGCCTTCCC
CGCCACCTCCACCCCTGTTGTGACCTGTCCTTCCGTACTTAATAAAGTGCGCGTGGGAGTGTTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6540/6881
FIGURE 6037

MARCELRGAALRDVLGRAQGVLFDCDGVWNGERAVFGAPELLERLARAGKAALFVSNNRRARPELALRFARL
GFGGLRAEQLFSSALCAARLLRQRLPGPPDAPGAVFVLGGEGLRAELRAAGRLAGDPSAGDGAAPRVRAVLVGY
DEHFSFAKLREACAHLRDPECLLVATDRDPWHPLSDGSRTPGTGS�AAVETASGRQALVVGKPSPYMFECITEN
FSIDPARTLMVGDRLETDILFGHRCGMTTVLTLTGVSRLĒEAQAYLAAGQHDLVPHYYVESIADLTEGLED

6541/6881
FIGURE 6038

ATCTCTCTCGGGTGGAGTCCTTCTGACAGCTGGTGCGCCTGCCCGGGAACATCCTCCTGGACTCAATCATGGCCTT
GTGGTCTGGTCGCCAGCAACCTGAATCTCAAACCTGGAGAGTGCCTTCGAGTGCGAGGCGAGGTGGCTCCTGACG
CTAAGAGCTTCGTGCTGAACCTGGGCAAAGACAGCAACAACCTGTGCCTGCACTTCAACCCTCGCTTCAACGCCC
ACGGCGACGCCAACACCATCGTGTGCAACAGCAAGGACGGCGGGGCCTGGGGGACCGAGCAGCGGGAGGCTGTCT
TTCCCTTCCAGCCTGGAAGTGTTGCAGAGGTGTGCATCACCTTCGACCAGGCCAACCTGACCGTCAAGCTGCCAG
ATGGATACGAATTCAAGTTCCCCAACCGCCTCAACCTGGAGGCCATCAACTACATGGCAGCTGACGGTGACTTCA
AGATCAAATGTGTGGCCTTTGACTTGAAATCAGCCAGCCCATGGCCCCCAATAAAGGCAGCTGCCTCTGCTCCCT
G

6542/6881
FIGURE 6039

MACGLVASNLNLKPGECLRVVRGEVAPDAKSFVLNLGKDSNNLCLHFNPRFNAHGDANTIVCNSKDGGAWGTEQRE
AVFPFQPGSVAEVCITFDQANLTVKLDPGYEFKFPNRLNLEAINYMAADGDFKIKCVAFD

6543/6881
FIGURE 6040

GGGCGGATGGAAGGGGCCGGGGCAGCGTCGGGGAAAGGAAGGGCCGGAGGCGCGGCGGGCGGGCGGCCGAGAGGGG
CGGCGGGCGGGCGGGCGGGGGTTCCCGCGCCGCGGAGCCCGGCCCGAGAGCCGCGTCCACGTTCCCTGCCTCCT
GCTCCCGCCGCCCTGGGGCGCCGCCATGACGCCCGATCTGCTCAACTTCAAGAAGGGATGGATGTCGATCTTGGA
CGAGCCTGGAGAGCCTCCCTCCCCCTCGCTCACCACCACCTCTACTTCGCAGTGGAAGAAACATTGGTTTGTGCT
GACAGATTCAAGTCTCAAATATTACAGAGACTCCACTGCTGAGGAGGCAGATGAGCTGGATGGTGAGATCGACCT
GCGTTCCTGCACGGATGTCAGTACGCGGTGCAGCGCAACTATGGCTTCCAGATCCACACCAAGGATGCTGT
CTATACCTTGTGCGCCATGACCTCAGGCATCCGGCGGAAGTGGATCGAGGCTCTGAGAAAGACCGTACGTCCAAC
TTCAGCCCCAGATGTCACCAAGCTCTCGGACTCTAACAAGGAGAACGCGCTGCACAGCTACAGCACCCAGAAGGG
CCCCCTGAAGGCAGGGGAGCAGCGGGCGGGCTCTGAGGTCATCAGCCGGGTGGCCCTCGGAAGGCGGACGGGCA
GCGTCAGGCCCTGGACTACGTGGAGCTCTCGCCGCTGACCCAGGCTTCCCGCAGCGGGCCCGCACCCAGCCCG
CACTCCTGACCGCCTGGCCAAGCAGGAGGAGCTGGAGCGGGACCTGGCCAGCGCTCCGAGGAGCGGGCGCAAGTG
GTTTGAGGCCACAGACAGCAGGACCCAGAGGTGCCTGCTGGTGAGGGGCGCGCCGGGGCCCTGGGTGCCCCCT
GACTGAGGACCAGCAAACCGGCTTAGTGAGGAGATCGAGAAGAAGTGGCAGGAGCTGGAGAAGCTGCCCTGCG
GGAGAATAAGCGGGTGCCCTCACTGCCCTGCTCAACCAAAGCCGCGGAGAGCGCCGAGGGCCCCCAAGTGACGG
CCACGAGGCACTGGAGAAGGAGGTTCAGGCTCTTCGGGCCAGCTGGAGGCGTGCGCTCTCCAAGGGGAGGCTCC
TCAGAGTGCAGTGAATCCAGGAGGATGGCCACATCCCCCGGGCTACATCTCACAGGAGGCATGTGAGCGCAG
CCTGGCAGAGATGGAGTCTCGCACCAGCAGGTGATGGAGGAGCTGCAGCGGCACCACGAGCGGGAGCTGCAGCG
CCTGCAGCAGGAGAAGGAGTGGCTCCTGGCTGAGGAGACGGCAGCCACGGCCTCAGCCATTGAAGCCATGAAGAA
GGCCTACCAGGAAGAGCTGAGCCGAGAGCTGAGCAAAACACGGAGTCTCCAGCAGGGCCCGGATGGCCTCCGGAA
GCAGCACCAGTCAGATGTGGAGGCACTGAAGCGAGAGCTGCAGGTGCTATCGGAGCAGTACTCGCAGAAGTGCT
GGAGATTGGGGCACTCATGCGGCAGGCTGAGGAGCGCGAGCACACGCTGCGCCGCTGCCAGCAGGAGGGCCAGGA
GCTGCTGCGCCACAACCAGGAGCTGCATGGCCGCTGTCAGAGGAGATAGACCAGCTGCGCGGCTTCATTGCCTC
GCAGGGCATGGGCAATGGCTGCGGGCGCAGCAACGAGCGGAGTTCTGCGAGCTAGAGGTGCTGCTTCGCGTAA
AGAAAACGAACCTCAGTACCTAAAGAAGGAGGTGCAGTGCTCCGGGACGAGCTCCAGATGATGCAGAAGGACAA
GCGCTTACCTCGGGAAAGTACCAGGACGTCTATGTGGAGCTGAGCCACATCAAGACACGGTCTGAGCGGGAGAT
CGAGCAGCTGAAGGAGCACCTGCGTCTTGCCATGGCCGCCCTCCAGGAGAAGGAGTCGATGCGCAACAGCCTGGC
TGAGTAGAGGTCCCGCCAGCTGCAGACCCTCCAGGCTGGAGGACCAGCCGCCCTCCTTCCCTCCTGGATGGAAG
TAAAAAGCCAAGCTTTCTCCCCACCTCTGTGGGCCACACGTGCACTTGCAACCACACACACACACACAC
ACACACACACACACAGACACACAGACACATACGCACACACGTGCACACATGTACACACGGATACACACACACACA
CACACACTGCATATCTGAGCGCGCCCTCGCACTGGGTCTCACCTTGCACTTCTTCAGGATTTATATGTGAAG
AGATTTTATATAGATTTTTTCTTTTTTTTCCAAAACACTTTATACTTTAAAAAAAAAAAAAAAAAAGCAATTCC
TGGTGGCTGTGTGCCTCCAACCCTGGTCCCCCTCTGTCTCCAGCCACCCTCTGCTTGGGCTTCTGAGCTGGTGGC
CCTGGCCCAGAGGTCTGGCGGAGGCCAGGCAGCAGCCATGGCGGGGTGTCTCTACAGGGGAGAGGCGGGAGCCT
GCCACCCTCTTCTGCCCTACCTCCTACTAACACTTCTGCCCCATTGGACCCGTACCATGGGGCTCAGGACAG
AGGGAGCTAGCAGCTGGCCTCCATGGCCCCACAGCCTCCTTCGAGGCTGTGCTGGGTGCAGAACCGCCAGAGCCA
CCAAAAGGTGTTTCTTCTGCTCCCTGAACCTCTTAACCTTAATAAACGTTCCAGCAGCT

6544/6881
FIGURE 6041

MTPDLLNFKKGWMSILDEPGEPSPSLTTTSTSQWKKHWFVLTDSCLKYYRDSTAEAEDELGEIDLRCTDVTE
YAVQRNYGFQIHTKDAVYTLSAMTSGIRRNWIEALRKTVRPTSAPDVTKLSDSNKENALHSYSTQKGPLKAGEQR
AGSEVISRGGPRKADGQRQALDYVELSPLTQASPQRARTPARTPDRLAKQEELERDLAQRSEERRKWFEATDSRT
PEVPAGEGPRRGLGAPLTEDQQNRLSEEIEKKWQELEKLEPLRENKRVPILTALLNQSRGERRGPPSDGHEALEKEV
QALRAQLEAWRLQGEAPQSALRSQEDGHIPPGYISQEACERSLAEMESSHQQVMEELQRHHERELQRLQKEKEWL
LAEETAATASAIEMKKAYQEELSRELSKTRSLQOGPDGLRKQHQSDEALKRELQVLSEQYSQKCLEIGALMRQ
AEEREHTLRRCQQEGQELLRHNQELHGRLSEEIDQLRGFIASQGMGNGCGRSNERSSCELEVLLRVKENELQYLK
KEVQCLRDELQMMQDKRFTSGKYQDVYVELSHIKTRSEREIEQLKEHLRLAMAALQEKESMRNSLAE

6545/6881
FIGURE 6042

GGGAGGCAGAGGAGGCGGAGGCAGAGGCAGAGGCAGAGGCAGAGCCCGAGCCCGGTGCCGAGACCAAGCGACAGA
CCGCGCGGGGCTGGGCCTCGCAAAGCCGGCTCGGCGAGCTCTCCCGACACCCGAGCCGGGGAGGAAAAGCAGCGAC
TCCTCGCTCGCATCCCCGGGAGCCGCACTCCAGACTGGCCCCGTAGTCAGGGGCTCAGGAGCAGATCCCGAGGCA
GGCTTTGCTCAGCCTCCGACGAGGGCTGGCCCTTTGGAAGGCGCCTTCAACAGCCGGACCAGACAGGCCACCATG
ACCGAGAATTCCACGTCCGCCCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCACCCC
AAGTATTCAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACC GCGCTGGCTCCTCGCGCCAGTCCATTTCAG
AAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGTCCATCAAGCGCCTGGTC
ACCACCGGTGTCCTCAAGCAGACCAAGGGGTGGGGGCTCGGGGTCCTTCCGGCTAGCCAAGAGCGACGAACCC
AAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGGAAATCAAGAAGGTAGCCACGCCAAAGAAGGCATCCAAGCCC
AAGAAGGCTGCCTCCAAAGCCCCAACCAGAAACCCAAAGCCACCCCGGTCAAGAAGGCCAAGAAGAAGCTGGCT
GCCACGCCCAAGAAAGCCAAAAACCCAAAGACTGTCAAAGCCAAGCCGGTCAAGGCATCCAAGCCCAAAAAGGCC
AAACCAGTGAAACCCAAAGCAAAGTCCAGTGCCAAGAGGGCCGGCAAGAAGAAGTGACAATGAAGTCTTTTCTTG
CGGACACTCCCTCCTGTCTCTATTTTCTGTAAATAATTTTCTCCTTTTTTCTCTCTTGTATGCTCACCACCCT
TTTGCCCCCTTCTGTTCTGACTTTTATAAGAGACAGGATTTGGATTCTTCAGAAATTACAGAATAATTCATTTTC
CTTAACCAGTTGTGCAAGGACAGCAACAACCAATCTAATGATGAGAATGTACTTATATTTTGTTTTGCTATTAAC
CTACTTACGGGGTTAGGGATTTGCGGGGGGGCTTGTGTGTTTTGTGGCTTGTGGCATGAAGGTAGATGTGG
GTGGGGAGAAGACACAAGGCAGTTTGTCTGGCTAGATGAGAGGGAACCCAGGAATTGTGAGGTTAGCAGGAATA
TCTTTAGGGTGAGTGAGTTTTCTTTGAGTTGGGCACCCGTTGTGAGAGTTTCAGAACCTTTGGCCAGCAGGAGAG
AGGTGGTAGGGAGCAGCCAGCCGGCAAAGGAAGGAGGGGGAAAAAACCGCCACCGGGCTGACTTCCACCTCCCA
GTGGTGAGCAGTGGGGGCCCAAACCCAGTTTCTTCTCATTTTTGTAGTTTGCCTTTTCGGCCTCCCTATTTTC
TTAGGGAAGGGGAGTGGGGTCCAAGTGACAGCTGGATGGGAGAAGCCATAGTTTCTCCAGTCAGCTAGGATGTA
GCCATTGGGGGATCTTTGTGGCTTCAGCAAATCTCTTGTTAAACCGGAGTGAAAACCTTCAGGGGAAGGGTGGGG
AGTCAGCCAAGTGCTCAGTGTGCCTGTTGAAACTTAGGTTTTTCCACGCAATCGATGGATTGTGTCCTAGGAA
GACTTTTTCTTTTCTCTGGATTTTTGTTCCTCCTGTACAAGAGGTGTCTTTGCTTGGTTTGGTGGGGCTGCGGCC
ACTTAAAACCTCCCGATCTCTTTTTGAGTCCTTTATTATAAGTAGTTGTAGCTGCGGGAGGGGAGGGGGAGTGG
GCGGGCAGTGGATAGTAAGACTTACTGCAGTCGATTGGGATTTGCTAAGTAGTTTTACAGAGCTAGATCTGTGT
GCATGTGTGTGTTTGTGTATATATACATATCTAGGGCTAGTACTTAGTTTCACACCCGGGAGCTGGGAGAAAAA
CCTGTACAGTTGTCTTTCTCTTATTTTAAATAAAATAGAAAAATCGCGCACTTGCGCGTCCCCCCCCACCCCT
TTTTTAAACAAGTGTTACTTGTGCCGGGAAAAATTTGCTGTCTTTGTAATTTTAAACCTTTAAATAAATTGGAA
AAGGGAG

6546/6881
FIGURE 6043

ATGACCGAGAATTCCACGTCCGCCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCAC
CCCAAGTATTCAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACC GCGCTGGCTCCTCGCGCCAGTCCATT
CAGAAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGTCCATCAAGCGCCTG
GTCACCACCGGTGTCCTCAAGCAGACCAAAGGGGTGGGGGCCTCGGGGTCCCTTCCGGCTAGCCAAGAGCGACGAA
CCCAAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGGAAATCAAGAAGGTAGCCACGCCAAAGAAGGCATCCAAG
CCCAAGAAGGCTGCCTCCAAAGCCCCAACCAAGAAACCCAAAGCCACCCTTTTTTTAAACAAGTGTTACTTGTGCC
GGGAAAATTTTGCTGTCTTTGTAATTTTAAACTTTAAAATAAATTGGAAAAGGGAG

6547/6881
FIGURE 6044

MTENSTSAPAAKPKRAKASKKSTDHPKYSDMIVAAIQAEKNRAGSSRQSIQKYIKSHYKVGGENADSQIKLSIKRL
VTTGVLKQTKGVGASGSFRLAKSDEPKKSVAFKKTKEIKKVATPKKASKPKKAASKAPTCKPKATLF

6548/6881
FIGURE 6045

GTCTTTCCGGCGGTGCTCGCAAGCGAGGCAGCCATGCTCTTATCCCGCTGATGATTATGAGTCTGAGGCGGCTTAT
GACCCCTACGCTTATCCCAGCGACTATGATATGCACACAGGAGATCCAAAGCAGGACCTTGCTTATGAACGTCAG
TATGAACAGCAAACCTATCAGGTGATCCCTGAGGTGATCAAAAACCTTCATCCAGTATTTCCACAAAACCTGTCTCA
GATTTGATTGACCAGAAAGTGTATGAGCTACAGGCCAGTCGTGTCTCCAGTGATGTCATTGACCAGAAAGGTGTAT
GAGATCCAGGACATCTATGAGAACAGCTGGACCAAGCTGACTGAAAGATTCTTCAAGAATACACCTTGGCCCCGAG
GCTGAAGCCATTGCTCCACAGGTTGGCAATGATGCTGTCTTCCTGATTTTATACAAAGAATTATACTACAGGCAC
ATATATGCCAAAGTCAGTGGGGGACCTTCCTTGGAGCAGAGGTTTGAATCCTATTACAACCTACTGCAATCTCTTC
AACTACATTCTTAATGCCGATGGTCCTGCTCCCCCTTGAACCTACCCAACCAGTGGCTCTGGGATATTATCGATGAG
TTCATCTACCAGTTTCAGTCATTTCAGTCAGTACCGCTGTAAGACTGCCAAGAAGTCAGAGGAGGAGATTGACTTT
CTTCGTTCCAATCCCAAAATCTGGAATGTTCATAGTGTCTCAATGTCCTTCATTCCCTGGTAGACAAATCCAAC
ATCAACCGACAGTTGGAGGTATACACAAGCGGAGGTGACCCTGAGAGTGTGGCTGGGGAGTATGGGCGGCACTCC
CTCTACAAAATGCTTGGTTACTTCAGCCTGGTCGGGCTTCTCCGCCTGCACTCCCTGTTAGGAGATTACTACCAG
GCCATCAAGGTGCTGGAGAACATCGAACTGAACAAGAAGAGTATGTATTCCCGTGTGCCAGAGTGCCAGGTCACC
ACATACTATTATGTTGGGTTTGCATATTTGATGATGCGTCGTTACCAGGATGCCATCCGGGTCTTCGCCAACATC
CTCCTCTACATCCAGAGGACCAAGAGCATGTTCCAGAGGACCACGTACAAGTATGAGATGATTAACAAGCAGAAT
GAGCAGATGCATGCGCTGCTGGCCATTGCCCTCACGATGTACCCCATGCGTATCGATGAGAGCATTACCTCCAG
CTGCGGGAGAAATATGGGGACAAGATGTTGCGCATGCAGAAAGGTGACCCACAAGTCTATGAAGAACTTTTCAGT
TACTCCTGCCCAAGTTCTGTGCGCTGTAGTGCCCAACTATGATAATGTGCACCCCAACTACCACAAAGAGCCC
TTCCTGCAGCAGCTGAAGGTGTTTTCTGATGAAGTACAGCAGCAGGCCAGCTTTCAACCATCCGCAGCTTCCTG
AAGCTCTACACCACCATGCCTGTGGCCAAGCTGGCTGGCTTCCTGGACCTCACAGAGCAGGAGTTCCGGATCCAG
CTTCTTGCTTTCAAACACAAGATGAAGAACCCTCGTGTGGACCAGCGGTATCTCAGCCCTGGATGGTGAATTTTCAG
TCAGCCTCAGAGGTTGACTTCTACATTGATAAGGACATGATCCACATCGCGGACACCAAGGTCGCCAGGCGTTAT
GGGGATTTCTTCATCCGTCAGATCCACAAATTTGAGGAGCTTAATCGAACCTGAAGAAGATGGGACAGAGACCT
TGATGATATTACACACATTTCAGGAACCTGTTTTGATGTATTATAGGCAGGAAGTGTTTTTGCTACCGTGAAACC
TTTACCTAGATCAGCCATCAGCCTGTCAACTCAGTTAACAAGTTAAGGACCGAAGTGTTCAGTGGATCTCAGT
AAAGGATCTTTGGAGCCAGAAAAAAA

6549/6881

FIGURE 6046

MSYPADDYESEAAYDPYAYPSDYDMHTGDPKQDLAYERQYEQQTYQVIPEVIKNFIQYFHKTVSDLIDQKVYELQ
ASRVSSDVIDQKVYEIQDIYENSWTKLTERFFKNTPWPEAEAIAPQVGNDVFLILYKELYRHIYAKVSGGPSL
EQRFESYYNYCNLFNYILNADGPAPLELPNQWLWDIIDEFIYQFQSFQYRCKTAKKSEEEIDFLRSNPKIWNVH
SVLNVLHSLVDKSNINRQLEVYTSGGDPESVAGEYGRHSYKMLGYFSLVGLRLHSLLDGYYQAIKVLNIELN
KKSMYSRVPECQVTYYYYVGFAYLMMRRYQDAIRVFANILLYIQRTKSMFQRTTYKYEMINKQNEQMHALLAIAL
TMYPMRIDESIHLQLREKYGDKMLRMQKGDPOVYEELFSYSCPKFLSPVVPNYDNVHPNYHKEPFLQQLKVSDE
VQQQAQLSTIRSFLKLYTTMPVAKLAGFLDLTEQEFRIQLLVFKHKMKNLVWTSGISALDGEFQSASEVDFYIDK
DMIHIADTKVARRYGDFFIHQIHKFEELNRTLKKMGQRP

6550/6881
FIGURE 6047A

GGCCAAGCCGGGGCCCCGAAGCCAGAGCCGGAGCCGGGCGGGCCGCGGGGTCATGGCTGGGCCGCGGGGCGCGCT
GCTGGCCTGGTGCCGCCGCCAGTGCGAGGGCTACCGCGCGCTGGAGATCCGCGACCTGAGCAGCTCCTTCCGGGA
CGGCCTGGCCTTCTGCGCCATCCTGCACCGGCACCGGCCCGACCTGCTAGATTTTGATTGCTTTCCAAGGACAA
TGTCTTCGAGAATAACCGTTTGGCCTTTGAAGTGGCTGAGAAGGAGCTGGGGATCCCCGCTCTCCTGGACCCCAA
TGACATGGTCTCCATGAGCGTCCCTGACTGCCTCAGCATCATGACCTATGTGTCCCAGTATTACAACCACTTCTG
CAGTCTGGCCAAGCTGGTGTCTCGCCACCCAGAAAGGGCCTTGACCCCTGTTCCCCGCGCTGTGTAGCACCCAC
TCCAGTGGAACCAGAAGATGTGGCTCAGGGCGAGGAGCTCTCCTCAGGCAGCCTGTGAGAGCAGGGCACCGGCCA
GACCCCAAGCAGCAGCTGCGCAGCCTGCCAGCAGCATGTGCACCTGGTGCAGCGCTACCTGGCTGACGGCAGGCT
GTACCATCGCCACTGCTTCCGGTGTGCGCGGTGCTCCAGCACCTGCTCCCTGGGGCTTATGAGAATGGGCCTGA
GGAGGGCACCTTTGTGTGTGAGAACACTGTGCCAGGCTGGGCGCGGGACACGGTTCGGGGACCAGGCCTGGGCC
CTTCTCACAGCCAAAGCAGCAGCACCAGCAGCAACTCGCAGAAGATGCCAAGGATGTTCCAGGAGGCGGCCCCAG
CTCCAGTGCTCCTGCAGGGGCTGAGGCCGATGGACCCAAGGCCAGCCCTGAGGCCGCGCGCAGATCCCTACCAA
GCCCCGGGTTTCTGGCAAACCTACAGGAGCTGGCCAGCCCCCTGCGGGCGCGCCCAACCCCTGCCCCAGGAAGGC
CTCTGAGAGCACCACCCAGCACCACCCACGCCCCGCGCCCGCTCCAGTCTGCAGCAGGAGAACCTGGTGGAGCA
GGCTGGCAGCAGCAGCCTGGTGAACGGGAGACTGCACGAACTGCCTGTCCCAAGCCGAGGGGGACACCGAAGCC
GTCCGAGGGGACACCAGCCCCAGGAAGGACCCCCCATGGATCACGCTGGTGCAGGCAGAACCAAGAAGAAGCC
AGCCCCACTTCCCCCAAGCAGCAGCCCCGGGGCCACCAAGCCAGGACAGCAGGCAGGTGGAGAATGGAGGCACCGA
GGAGGTGGCCCAGCCGAGCCCAACGGCCAGCCTGGAGTCCAAACCTTATAACCCCTTTGAGGAGGAGGAGGAGGA
CAAGGAGGAAGAGGCTCCAGCTGCACCCAGCCTGGCCACCAGCCCTGCCCTGGGCCACCCGGAGTCCACACCCAA
GTCCCTGCACCCCTGGTACGGCATCACCCCTACCAGCAGCCCCAAGACAAAGAAGCGCCCTGCCCGCGCGCACC
CAGCGCGTCCCCACTGGCTCTCCACGCCTCCCGCCTCTCGACTCGGAGCCGCCCTCGGCCACACCATCGCCAGC
GCTCAGCGTGGAGAGCCTGTGCTGTGAGAGCGCCAGCCAGACTGCAGGTGCAGAGCTTCTGGAGCCGCCAGCTGT
GCCCCAAGAGCTCCTCAGAGCCTGCTGTCCATGCCCTGGTACCCCTGGAAACCTGTGAGCCTCTCTACCAACTC
CTCCCTGGCCTCCTCTGGGGAAGTAGTGAGCCTAGAGTGGAACAAATGCCTCAAGCCAGCCCTGGCCTTGCCCC
CAGGACCAGGGGAGCTCAGGTCCCCAGCCAGCCAAGCCCTGCAGTGGCGCCACCCCAACGCCTCTCTTGTGGT
TGGAGACAGGAGCCCGGTGCCTTCCCCCTGGAAGCTCGTCCCCACAGCTGCAGGTAAAGTCTCCTGCAAGGAGAA
TCCTTTTAACCGGAAGCCATCACCTGCAGCGTCCCCAGCCACAAAGAAGGCCACCAAGGGATCCAAGCCAGTGAG
GCCACCTGCCCTGGACACGGCTTCCACTCATCAACGCAAGGTCCAGGCTGACAGTACATCCCTGAGGAGGA
CATCCATGGAGAGATGGATACCATGAGCGCCGGCTGGATGCCCTGGAGCACCCTGGGGTGTGCTGGAGGAGAA
GCTGCGTGGCGGCCTGAATGAGGGCCGTGAGGATGACATGCTGGTGGACTGGTTCAAGCTCATCCACGAGAAGCA
CCTACTGGTGGCGGAGAGTCCGAGCTCATCTATGTCTTCAAGCAGCAGAACCTGGAGCAGCGCCAGGCTGATGT
CGAGTATGAGCTCCGGTGCCTCCTCAATAAGCCAGAAAAGGACTGGACGGAGGAGGACCGGGCCCGGGAGAAGGT
GCTGATGCAGGAGCTTGTGACCCTCATTGAGCAGCGCAACGCTATCATCAACTGCCTGGATGAGGACCGGCAGAG
GGAGGAAGAGGAAGACAAGATGTTGGAAGCCATGATCAAGAAGAAAGAGTTCCAGAGGGAGGCTGAACCTGAGGG
CAAGAAGAAGGGGAAGTTCAAGACCATGAAGATGTTGAAACTGCTAGGAAACAAACGTGATGCCAAGAGCAAGTC
CCCCAGAGACAAGAGCTAACAGCAGCAGAGAAGCCAGTTGGGGACTGCCCCCTCCTGGAGCAGCTCCTGGGCTGTGC
TCTGTTTGAAGGGGCGCCCTGCTCCCCCTCAGATCAGTCAGGAGGAAGATGACTAAGGGGAGGGATCCTCTGGGT
GATGGCCTCTTCTCCTCAGGGACCTCTGACTGCTCTGGGCCAAAGAATCTCTTGTCTTCTTCCGAGCCCCAGG
CAGCGGTGATTACGCCCTGCCCAACCTGATTCTGATGACTGCGGATGCTGTGACGGACCAAGGGGCAATAGGG
TCCCAGGGTCCAGGGAGGGGCGCCTGCTGAGCACTTCCGCCCTCACCTGCCAGCCCTGCCATGAGCTCTGG
GCTGGGTCTCCGCCTCCAGGGTCTGCTCTTCCAGGCAGGCCAGCAAGTGGCGCTGGGCCACACTGGCTTCTTCC
TGCCCCATCCCTGGCTCTGAGTCTCTGTCTTCTGTCTGTGACGGCGCCCTGGATCTCAGTTTCCCTCACTCA
GGAACCTCTGTTTCTGAAGTCTTCAAGTTAAGTTTGAAGTTTATGACTGAGTGGCCTGTACTGTGACAGCTGAATGGG
CCTGACGGGCAATCCATCCCTCTCTCCCTCACAGTTCCAGGAGCGGCTTCCCTCGTCTCCCTTACTCCACAGG
GAGCCTCCCTTGCCAGGACCAGGGCTGCGACGGCCATGCTGGGGCAGGTGAGTGTCTGTTAGCTGCTCCAGTG
CTGTCCCCAGGCTGCAGTTCTGGTCCCTGGTGTGAGGTAGGAAGGGTGCACCTGAAGCAGGTGCTCATCTCGGT
TCCTTAACGTTTATAGTCTGACCCCTCACTTAGGCTTTCCTCTGCCACCCCGGTCCAGGAAGAGGCTCGCTCCC
GCCATGGTCATCACTGGTCTGTCTGCTCTGTTGTCTGTTCTTCCCTGACTCCCTCCACCGAAGGCCTGATGG

6551/6881
FIGURE 6047B

CTACTCACCCCTCTGGGATGGCTATGGGAGAGGAGGAGTGATGGGGACCGCCACCTTTTCTGCAGGAAATGTGCC
CAGCAGCTCTTGGTCAAAGCACTGTTGCTATAAGCTATCTCTGGGATGCCTCTAGGCCCCCTTCCCTCTACACAC
CTCTGGGAAAAGATTACACTGTATTAAGTCTCGAGGAGTTTCCCTCACCAATAAACAGACAACCTCAACTGCCAGT
GCCCTGCAGCCTCGGGCCACAGCGGCAGCCTTGTGCTTCCCACCTGCCTCTGCCACACCTGGTGGCTGAACA
TCTCTGGTGCAGCCAGAGGCCATGTTGGGGCCATCCTCCAAGAGGGATCTCTGCCCTCACCCTGCCACTGGGCA
GGATCCCTTTTCTCTGCAGGGAGAGGTGGCTCCTCGGCCATGCAGCCCCTGGCAGGCTCCTTCTAAACATGCCTG
TTGACCTGGAGCTGGCGCCACCAACTCCAGGGCCTTTCCAGGGCCAGACAGGTAACACGCATGAACCCGAGTGAC
AGCTCTGACGGGCTGTTTCGGTGTGAGGAGACAAAGCTGGCAGGGGCAGGGGTGAAGTGGAGGCAAGTCAAGTCA
CCTGTGGCCTGTGGGGCTGAATGTGGGCCCCGGTGTGCCAGATCCTTTGTGATAAGAAGCTAGAAATCCAGATTT
TATGTGTGTGTAATTTGTAAATGCTGAAAGCTAGCCTGAATTTTTTTTTTTTTTTTTTTGAGACAGAGTCTCGCTC
TGTCGCCCAGGCTGGAGTGCAGTGGCGGATCTCAGCTCACTGCAAGCTCCGCCTCCTGGGTTTCACGCCATCCTC
CTGCCTCGGCCTCCTGAGCAGCTGGGACTACAGGCGCATGCTACGACGCCTGGCTAATTTTTTTGTATTTTTAGTA
GAGACGGGGTTTACCGTGTAAACCAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCCACCTTGGCCTCCCA
AAGTGTGGGATTACAGGCGTGAGCCACCACGCCCCGCCACTAGCCTGAATTTCAATCAAGGGTTGGCTGATACT
GTGTGTCCAGGGTGGACTGGATTTGTCTGGGGGGTTCTCTGGTTTGCTGCCTCCTGACCACATGATGGGGCCTT
CGAGGTCGAGGACAACTGTTCCCATTAGATTGCACCTCTGCCCTCAGGTTCTTGAGGGTGTGTGGACACAGAGG
CTTTCCATGGGATGTCCCTGAGCCGGCCCTTGATTGGGGCCTCACCATTTACAGGGCCGTTTTATTCTGCAAACC
GAACTTGGGTCATGTGACCTGATGGGATTATGGGACTCCCTCCAGGTGCCCGAGACAAGGTTGATATTTCCAAA
ATATTTTGGTGATTTAGTGGGACAAGCAAATGACAGAATACCGGAGAAGGCAGGGATCGTGGGTGTCAGGAGCCA
GAGGGGAGGGGGACAGATGTGCTGTGTACAGGACAAGGTGTCAGGTGACTCCTTCCCAGCAGGGCCTCGCAGATG
CACAAGCACGGAGCTGGTGGGTTTTGCCCAAGAAAGGTCACGCGGCACATGCAGGGATTGGAAGTCCCAGGCCAG
GGCTCTAGGTGCTCCCACCTTTTCATGTTTCTTTCTGTGGCCATGGGTATAGTGGAAGACATAAAGCTAAAGC
CACTTTTAATCCTGAATGCACTGCTTGCCAGGTAAATGCCCTTGGTTGTGGTATCTTGTGAGACTTAGTTTTTC
ACAGAGGGATAATGAACCGTTGCAGAGGTTTATTGAGATCATTACAGAGTGGAATTCAGCACCCGCCACAGCAG
CCAGCCATGGG

6552/6881
FIGURE 6048

MAGPRGALLAWCRRQCEGYRGVEIRDLSSSFRDGLAFCAILHRHRPDLLDFDSLSDNVFENNRLAFEVAEKELG
IPALLDPNDMVSMSPDCLSIMTYVSQYYNHFCSPGQAGVSPPRKGLAPCSPPSVAPTVEPEDVAQGEELSSGS
LSEQGTGQTPSSTCAACQQHVHLVQRYLADGRLYHRHCFRCRRCSSTLLPGAYENGPEEGTFVCAEHCARLGP
RSGTRPGPFSQPKQQHQQLAEDAKDVPGGGPSSAPAGAEADGPKASPEARQIPTKPRVPGKLQELASPPAGR
PTPAPRKASESTTPAPPTPRPRSSLQOENLVEQAGSSSLVNGRLHELPVPKPRGTPKPSGTPAPRKDPPWITLV
QAEPKKKPAPLPPSSSPGPPSQDSRQVENGGTEEVAQPSPTASLESKPYNPFEEEEEDKEEEAPAAPSLATSPAL
GHPESTPKSLHPWYGITPTSSPKTKKRPAPRAPASPLALHASRLSHSEPPSATPSPALSVESLSSESASQTAGA
ELLEPPAVPKSSSEPAVHAPGTPGNPVSLSSTNSSLASSGELVEPRVEQMPQASPGAPRTRGSSGPQPAKPCSGA
TPTPLLLVGDRSPVPSFGSSSPQLQVKSSCKENPFNRKPSAASPATKKATKGSKPVRPPAPGHGFPLIKRKVQA
DQYIPEEDIHGEMDTIERRDALEHRGVLLEEKLRGGLNEGREDMLVDWFKLIHEKHLLVRRESELIYVFKQON
LEQRQADVEYELRCLLNKPEKDWTEEDRAREKVLMLQELVTLIEQRNAIINCLDEDROREEEEDKMLEAMIKKKEF
QREAEPEGKKKGKFKTMKMLKLLGNKRDAKSKSPRDKS

FIGURE 6049

[illegible]

6554/6881
FIGURE 6050

MAEEQDLSEVELSPVGSEEPRLSPGSAPSLGPDGGGGGSGLRASPGPGELGKVKKEQQDGEADDDKFPVCIREA
VSQVLSGYDWTLPMPVRVNGASKSKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLLNESDK
RPFIEEAERLRMQHKKDHPDYKYQPRRRKNGKAAQGEAECPGGEAEQGGTAAIQAHYKSAHLDHRHPGEGSPMSD
GNPEHPSGQSHGPPTPPTTPKTELQSGKADPKRDGRSMGEGGKPHIDFGNVDIGEISHEVMSNMETFDVAELDQY
LPPNGHPGHVSSYSAAGYGLGSALAVASGHSAWISKPPGVALPTVSPPGVDAKAQVKTETAGPQGPPHYTDQPS
SQIAYTSLSLPHYGSAPFISRPQFDYSDHQPSGPYYGHSGQASGLYSAPFSYMGPSQRPLYTAISDPSPSGPQSH
SPTHWEQPVYTTLSRP

6555/6881
FIGURE 6051

CTGGGGGTCCGTTCCCCAACTTCCTCGGCGCTCCGGACTCCCAAGTCTCCGCCGGACCCTCCTTTGGATATTCTCT
CGTGTCTCCGATTCTGAGAGAGGGGAAGACGGTGGGGCCTCCCCACCTGCCCCGCAGAAGATGCAGTTCTTTGG
CCGCCTGGTCAATACCTTCAGTGGCGTCACCAACTTGTTCTCTAACCATTCCGGGTGAAGGAGGTGGCTGTGGC
CGACTACACCTCGAGTGACCGAGTTTCGGGAGGAAGGGCAGCTGATTCTGTTCCAGAACACTCCCAACCGCACCTG
GGACTGCGTCTGGTCAACCCCAGGAACCTCACAGAGTGGATTCCGACTCTTCCAGCTGGAGTTGGAGGCTGACGC
CCTAGTGAATTTCCATCAGTATTCTTCCAGCTGCTACCCTTCTATGAGAGCTCCCTCAGGTCTGCACACTGA
GGTCTGCAGCACCTGACCGACCTCATCCGTAACCACCCCAGCTGGTCAGTGGCCACCTGGCTGTGGAGCTAGG
GATCCGCGAGTGCTTCCATCACAGCCGTATCATCAGCTGTGCCAATTGCGCGGAGAACGAGGAGGGCTGCACACC
CCTGCACCTGGCCTGCCGCAAGGGTGATGGGGAGATCCTGGTGGAGCTGGTGCAGTACTGCCACACTCAGATGGA
TGTACCGACTACAAGGGAGAGACCGTCTTCCATTATGCTGTCCAGGGTGACAATTCTCAGGTGCTGCAGCTCCT
TGGAAGGAACGCAGTGGCTGGCCTGAACCAGGTGAATAACCAAGGGCTGACCCGCTGCACCTGGCCTGCCAGCT
GGGGAAGCAGGAGATGGTCCGCGTGCTGCTGTGCAATGCTCGGTGCAACATCATGGGCCCAACGGCTACCC
CATCCACTCGGCCATGAAGTTCTCTCAGAAGGGGTGTGCGGAGATGATCATCAGCATGGACAGCAGCCAGATCCA
CAGCAAAGACCCCCGTTACGGAGCCAGCCCCCTCCACTGGGCCAAGAACGCAGAGATGGCCCGCATGCTGTGAA
ACGGGGCTGCAACGTGAACAGCACCAGCTCCGCGGGGAACACGGCCCTGCACGTGGCGGTGATGCGCAACCGCTT
CGACTGTGCCATAGTGCTGTGACCCACGGGGCCAACGCGGATGCCGCGGAGAGCAGCGCAACACCCCGCTGCA
CCTGGCCATGTGAAAGACAACGTGGAGATGATCAAGGCCCTCATCGTGTTCGGAGCAGAAGTGGACACCCCGAA
TGACTTTGGGGAGACTCCTACATTCTAGCCTCCAAAATCGGCAGACTGTACCAGGAAGGCGATCTTGACTCT
GCTGAGAACCCTGGGGGCCGAATACTGCTTCCACCCATCCACGGGGTCCCCGCGGAGCAGGGCTCTGCAGCGCC
ACATCATCCCTTCTCCCTGGAAAGAGCTCAGCCCCCACCAGTACGCTAAACAACCTAGAACTACAGGATCTCAT
GCACATCTCACGGGGCCCGGAAGCCAGCGTTTCATCCTGGGCTCCATGAGGGACGAGAAGCGGACCCACGACCCT
GCTGTGCCTGGATGGAGGAGGAGTGAAAGGCCTCATCATCATCCAGCTCCTCATCGCCATCGAGAAGGCCTCGGG
TGTGGCCACCAAGGACCTGTTTGAAGTGGGTGGCGGGCACCAGCACTGGAGGCATCTGGCCCTGGCCATTCTGCA
CAGTAAGTCCATGGCCTACATGCGCGCATGTACTTTGCGATGAAGGATGAGGTGTTCCGGGGCTCCAGGCCCTA
CGAGTCCGGGGCCCTGGAGGAGTTCTGAAGCGGGAGTTTGGGGAGCACACCAAGATGACGGACGTCAGGAAACC
CAAGGTGATGCTGACAGGGACACTGTCTGACCGGCAGCCGGCTGAACTCCACCTCTTCCGGAACCTACGATGCTCC
AGAACTGTCCGGGAGCCTCGTTTCAACCAGAACGTTAACTCAGGCCCTCAGCTCAGCCCTCAGACCAGCTGGT
GTGGCGGGCGGCCGAAGCAGCGGGCAGCTCCTACTTACTTCCGACCCAATGGGCGCTTCTGGACGGTGGGCT
GCTGGCCAACAACCCACGCTGGATGCCATGACCGAGATCCATGAGTACAATCAGGACCTGATCCGCAAGGGTCA
GGCCAACAAGGTGAAGAACTCTCCATCGTTGTCTCCCTGGGGACAGGGAGGTCCCCACAAGTGCTGTGACCTG
TGTGGATGTCTTCCGTCCCAGCAACCCCTGGGAGCTGGCCAAGACTGTTTTTGGGGCCAAGGAAGTGGGCAAGAT
GGTGGTGGACTGTTGCACGGATCCAGACGGCGGGCTGTGGACCGGGCACGGGCTGGTGCGAGATGGTCGGCAT
CCAGTACTTCAGATTGAACCCCAAGCTGGGGACGGACATCATGCTGGATGAGGTGAGTGACACAGTGCTGGTCAA
CGCCCTCTGGGAGACCGAGGTCTACATCTATGAGCACCGCGAGGAGTTCAGAAAGCTCATCCAGCTGCTGCTCTC
ACCCTGAGGGTCCCCAGCCTCTCACCGGCCCCAGCTGACCTCGTCCATTACGCCCTGCCAGGCCAAGCCCAGCC
ACTGCCCTCCCGGGCAGATCTGGGGCCAGGCACCTCTGAGTCCATAGACCAGGCTGGGAGAATGCCAAGCTGCC
TGCCCGAGGCTGGTCTGAAGGCCTGTCTCCCACTAACCCCGCTTCCAGCACTTCTGTGATTCCAGGCTGGGA
AAGTCTAGAGCCCCCTTTGGCCCCCTTCCCTGACTGTCAAGGACAACCTGACTCCCCCATCAGCTCAAACATTAAG
GGTACCCGGGCACAACCGTACCCCTGCCCCAGCCCCAGCCTCCCTGAGGGCCTGCCGGGCTGCCTCTGCCCCAG
CCCCAGCAAGGGCACTCCAGGCTTCTTGGTGGGTGCAGCCCACTCCCTCTGCCCTCTGCTCCGTTCCCTGGGG
GCTGGGACTAAAGAAATGGGTGTCCCCACCCCATCAGCTGGGAAAGCCCAGGCCGAGGAGTGGGATGCCCGTT
GGACTTTGCCCTCACACTGGCCCAGCCCCCTCACACTGCCCCACCCGAGAACCCTCAGCTCTCAAAGGTCACTC
CTGGGAGTTTCTTCTTCCCAATGGAAGTGGCTTAAGAGCCAAAACCTGAAATAAATCATTTGGATTCAAGTTC

6556/6881
FIGURE 6052

CTTACAACCTCCGCGCGGCCTCGGCCCCCTGCGCCGCCGCCGCCCAACAACAACTCAGCGCAGCGCTCCCGGGCGC
CCGGTTCAGAGCGACCTGCGGCTCAGAGCGGAGGGGAGACTGACCGGAGCGCGGATCGGGACAGCGGCCGGGACA
GCGGCGAGACGCGCGTGTGTGAGCGCGCCGGACCAAGCGGGCCAGAAAGCGGGTCTGCAGCCCAGAGGGCACCTT
CTGCAAACTAGTCTGTGGATCCCCATCCAGCAAAGCTCTAAAGATCAAGCGAGAGCTGAGCGAGAACACGCCGC
ACCTGTGCGACGAGGCGCTGATGGGGCTGTGCGGTGCGCGAGCTGAACCGGCATCTGCGCGGGCTCTCCGCCGAGG
AGGTGACACGGCTCAAGCAGCGGCGCCGCACACTCAAAAACCGTGGCTACGCCGCCAGCTGCCGCGTGAAGCGCG
TGTGCCAGAAGGAGGAGCTGCAGAAGCAGAAGTCGGAGCTGGAGCGCGAGGTGGACAAGCTGGCGCGCGAGAACG
CCGCCATGCGCCTGGAGCTCGACGCGCTGCGCGGCAAGTGCGAGGCGCTGCAGGGCTTCGCGCGCTCCGTGGCCG
CCGCCCGGGGCCCGCCACGCTCGTGGCGCCGGCCAGCGTCATCACCATCGTCAAGTCCACCCGGGCTCGGGGT
CTGGCCCCGCCACGGCCCGGACCCCGCCACGGCCCGGCTCTCTGCTCCCTAGTGCCCCCGCCATGCCTCA
GCCACGCCCTCCGGCTCAGCTCCCTCCCCAAAGTGCCTGAGCGCCGCTCTGTGCCAGGTCCCATTTCTCTG
CAGCACTGGCCCCCTTGGTGCACACACATTCCCTTCGTGGGCCCTGTCTTCTCTGAGCCCCCAAACTGGGAC
CGAATGACCCTGGGAAGGGGAAGTTGGGTAGGTTGGGGATGGGGCAGAGGTCTGGATCTGGGATCGCCCTTGGCT
GAAAGTTTAGCCTTTTTTAGATTGAGAGATACAGAGCCGGCTTAGAGAACAGCTGTTGGGGGAGAAGAGGGCACCC
CTCATCTTGGAAACTGCTCTTATGTGCCAATATGCCCTCAAACCCTCCCAGGATTCAAAGCTAGGTTTGGCTG
TCTGTGACTTACGGGACCGTCTGTGAGAAATTGCACTGAAGAGATGCCCCACCTCTGGTTGGGCCCTGGGGT
GCCTGGCCTTCCGAAACTAAAAGAGTGGGTGGGAAGACTAGTGAAACCCAGTTACGGATGGGGAAACAGGCCTG
AGGTACATTTCACTTAGTGGTTGTGTGGGACCAAAACCTGGGTGTCCTCACTGCTGAGTCCAGCCATGGTTTT
CAGGGGGACAGTGGACAGGGACTCAGAAATGTGGTGGGAGGGCCTCCCTGGCTTGGGAGACCGCTCTCTGCAAGG
GAGGGGGAGAGAAGCAGAGGGAGAGAGAAGGTGACACGGATGGAAGAGTGGGAAGGAGCTGGCCTGGCTCAGCCC
TAGGCTGTCCCTGCAGCCAGGGTGTCCGGGGGCTGGCCAGTCAGAGAAAGGGGGCCATGGACTGCTGTGGCAAAT
AGGGAGACAAGGAGACAGACCCTGCAGTCTTACTACAGTCTGGAGTGGGGTCTTAAGAAGAAGGGTCCCACCTCA
ACCCCTGTCACTGTCCACTGTGGGGTGGGGGCTGACCCCTGCCTTTGATTGTCACTCTCTCTGGGAAGCCAGTCT
CAGTCCCTCCCCAACACTGTCCACACTGCCCCCTCCCCACTGTTTATTTATTGCACGGATCTAAGTTATTCTCCC
CAGCCAGAGCCCGAGCTCCTGCTCCCTGGGAAAAGTGGCGTATGGCCCTGAGCTGGGCTTTATATTATATATCTG
CAAATAAATCACATTTTATCTTATATTTAGGGAAAGCCGGAGAGCAACAACAAAAAATGTTTAAAGCCGGGCGCGG
TGGCTCACATCTGTAATCCCAGCACTTTGGGAGTCCAAGGAGGGGGATCGCTTGAGTCCAGGAGTTTGAAGACCAG
CCTGGACAACATGGTGAAACCCCGTCTCTACAAAAAATACAAAAATTAGCCATGCATGGTGGCTCATGCCGTGAG
TCCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCACTTAAGCCCAGAAAGGCAGAGGTTGTAGTGAGCTGAGATCG
CACCCTGCACTCCAGCCTGGGCAACATAGCAAAATCCTGTCTCAAAAAAAGTTAAAAAATATTGCCCGGCTC
CTAGAATTTATTTATTTCTGACTTACAGCAAGCGAGTTATCGTCTTCTGTATTTTGTAGACTTTCTAAATAAAG
TCAAATTCCTTTCTTTTCCACAGAAAAA

6557/6881
FIGURE 6053

MSVDPLSSKALKIKRESENTPHLSDEALMGLSVRELNRLRGLSAEEVTRLKQRRRTLKNRGYAASCRVKRVCQ
KEELQKQKSELEREVDKLARENAAMRLELDALRGKCEALQGFARSVAAARGPATLVAPASVITIVKSTPGSGSGP
AHGPDPAHGPASCS

6558/6881
FIGURE 6054

CGCCGGCGGGCGGGGAGACTCCGGGGCTGCGGCGCCGCCCGCCCCGCGCAGAGTCCGGCTGCCGCGCATCGTC
CGCAGACGCCGCCACCGCCATGGGCTCCTGAGGCTAGCTTGTCACTTTCTGCAAAGGTTTCCCTCAGGGAGCCTC
CTGCTGCCAGGCACCATGACAGTGAGGGGGGATGTGCTGGCCCCGGATCCAGCGTCGCCACGACCGCAGCAGCC
TCGCCACGCTCTCCGTGATCCCCGAGGGCAGCCCCACTGCCATGGAGCAGCCTGTGTTCTGATGACAACCTGCC
GCTCAGGCCATCTCTGGCTTCTTCGTGTGGACGGCCCTGCTCATCACATGCCACCAGATCTACATGCACCTGCGC
TGCTACAGCTGCCCCAACGAGCAGCGCTACATCGTGCGCATCTCTTCATCGTGCCCATCTACGCCTTTGACTCC
TGGCTCAGCCTCCTCTTCTTACCAACGACCAGTACTACGTGTACTTCGGCACCGTCCGCGACTGCTATGAGGCC
TTGGTCATCTATAATTTCTGAGCCTGTGCTATGAGTACCTAGGAGGAGAAAGTTCCATCATGTGCGAGATCAGA
GGAAAACCCATTGAGTCCAGCTGTATGTATGGCACCTGCTGCCTCTGGGGAAAGACTTATTCCATCGGATTTCTG
AGGTTCTGCAAACAGGCCACCCTGCAGTTCTGTGTGGTGAAGCCACTCATGGCGGTGAGCACTGTGGTCTCCAG
GCCTTCGGCAAGTACCGGGATGGGGACTTTGACGTACCAGTGGCTACCTCTACGTGACCAATCATCTACAACATC
TCCGTACAGCTGGCCCTCTACGCCCTCTTCTCTTCTACTTCGCCACCCGGGAGCTGCTCAGCCCTACAGCCCC
GTCTCAAGTTCTTCATGGTCAAGTCCGTCTCTTTCTTTCTTCTGGAAGGCATGCTCCTGGCCATCCTGGAG
AAGTGTGGGGCCATCCCCAAAATCCACTCGGCCCGCGTGTGCGTGGGCGAGGGCACCCTGGCTGCCGGCTACCAG
GACTTCATCATCTGTGTGGAGATGTTCTTTGAGCCCTGGCCCTGCGGCACGCCTTCACCTACAAGGTCTATGCT
GACAAGAGGCTGGACGCACAAGGCCGCTGTGCCCCCATGAAGAGCATCTCCAGCAGCCTCAAGGAGACCATGAAC
CCGCACGACATCGTGCAGGACGCCATCCACAACCTTCTACCTGCCTACCAGCAGTACACGCAGCAGTCCACCCTG
GAGCCTGGGGCCACCTGGCGTGGTGGCGCCACGGCCTCTCCCGCTCCACAGCCTCAGTGGCGCCCGCGACAAC
GAGAAGACTCTCCTGCTCAGCTCTGATGATGAATTCTAGGTGCGGGCTGCAGTGGCGGAAGTGTGGCGCCATAG
CCACGGTCAGGCTGTGCCCCACCTCCAGCCTCACCACAGGCCAGGAGCAGCTGGCACAGTGTCTACGCCGCTT
TTATTTATTGGACCAGAAACACTCACATGTCACTTCCAGAGGAACGGGGGACAGCCAGGCTCGCCCATGGGCCTT
CAGGAATATTTATACATGGCCAGCCTGCACTGCCCGGGCGAGGGCAGAGGACACTGGGAGCAAGGCTTATGCCC
CTGCTGCCCGTCTGTGCTGGGGGATGCTGGGACCAGCCGCACCCAGGCCCAATGCTTGTGTGTGGACCAGCG
GCTGCAGCCTTCTAGCCCTCCTCCCCGCGAGACTCTCAGGCTGAGGTGCGCAAGCCGTGGCTCCCCACACACC
GTGCAATACCCTGTCTGACCTGGGCTCTTCCCGCTGCATCCCTCCCTGTCCACCTTTGTCCAGTGTAGATTC
ACCTCACCCCGGGCAGGAGTGGGGATGTGGGCGCTCTGTGGTCTTCCCTCCTGACCCAGGCCTCTGTGGCATGC
TGCAAGGATCAGAGCCAGACACCAGGAGTACAGGCCCCACCCAGGAAGGGCATTAGGGCCCCCTGGGCACCGCT
TCTGTGAAGCAGGGGCTTCTGGGCCCCCTGGGTATCCCCACCTGTCTGTCGCCACACCTCTGCCTGCCTCATGCCC
CTTCCCCCTGGCCTACCAAGGACAGCCACAGCCCGCACTGCCGGCTCACTTGGGTCTTCTCTCGATAGCTTTGG
GCAGAGCCCTTGCTTCTGGCTGCTTACGGGCTCAGGGGCTCCAGCCCTCCTTCCCAGGCTGATGCTGGGTCTT
CTCTCTTTGGGGCTTCTCCCTCCCGTTTACGGGGAAAGGTCTGAGTCTCCACGTTTCAGACCAGCTTCTGGGG
GAAGGCAGTCCGGCAGGGAGACCGGGAGGGGTGGCCACACAGTGGGGAGCTGGGAGGTGGGGGGAATGGTCCAG
ACTCCTCTCGGGGCCCTATCCACACAGGGCCTGGTGTCTACCCCATCTGGCCCCCTGGCCCATCTCTTCTGTGC
CTTAGTCACATATGAAAGCGCCCTCCCTGGCTCCCATCTGTCCACACGCTCCCTGGGGCTCTTAGTTTCAGCT
GCTGGCACTCGCAGGATCCTGCAGTGTGGGCCAGAGCCCTTGGACAGGCCTCAGGAGTGGTCAGGACCACCAA
GCCCCCTCTCCCCCTCCACACCTCTAGACCTGGGGCTCCGGAACCCCCAGCAGGCTGGGCTTATACTAGCTC
CTGACTTAGGAAGAGCCTCGTGTACAAACAGTGTCCCTACAGGCAAAGTGTCTTGGCATTATAAAACCCAGATTA
TCCCTGGGTTTGGGCTGCAGTCACCTGGAGAAGCTGGTAGGGTAAGGGAGAGGGACCTGCCGGTGTTCAGTGGG
GATTCTTTCTTTTGGTCTTCTGGAATGAACAGGTTCCCTCCCTGCCACCTGTGAGGAGAGTTGGGGCCAGCC
GTCTTCTGGCCTCCTTCTTCTCGTGGCAGAGGCCTGCATGTGGGTGCCAGAGGCCAGCTCTCCCCCTCCAT
CTTGGGGGGGCGGAGCAGTTGGGGCCAAAGCTGCCCGGGAGGGTGGGTGCAGACACAGGCTGAGGACCAGCCCTGG
CCCTGCCCCGCCATCTGCTTTCACCAAGCTGTCTCTCCACCGTGGCTTCCCTTCTCCCTCCAGGCCAAAGTGTG
CTGATTCCCACTCCCTTGGTTTTCTGCTGCCAGCGTTGCTGTTTGGTGGAGGGTGGGGGGAGCTCAGTGGCAG
GGAATCAGCGGTCCGTGGGGTCTGTGGGGACGGGAACATGTGCCCGACCGCTCCATCCCTCCTCCTCTTAGGAT
GCATAACCTACCTTGTCTTTTTTTTTTAAATTTCTTTCCAGGTAGAGTAGCTCTTGTACATAAAGAATACTT
GAAAAATTAATTGTATGATGTATGAGAAGACAGAGTCTCCTAGTTTGTATCTTGTGTATGACTGCCATGAGTT
CCACCAGAAAGCCACTCTATTTTGGTCCCTGTGACATTTTAAATGCGTGACAGAAGTGAGCAAATAAAGTGAGGA
AGAAATCTATATATGAGATAATATAGATTGTATTGAAAAAAAAAAAAAAAAAAAA

6559/6881

FIGURE 6055

MEQPVFLMTTAAQAISGFFVWTALLITCHQIYMHLRCYSCPNEQRYIVRILFIVPIYAFDSWLSLLFFTNDQYYV
YFGTVRDCYEALVIYNFLSLCYEYLGGESSIMSEIRGKPIESSCMYGCCLWGKTYSIGFLRFCKQATLQFCVVK
PLMAVSTVVLQAFGKYRDGDFDVTSGYLYVTIIYNISVSLALYALFLFYFATRELLSPYSPVLKFFMVKSVIFLS
FWQGMLLAILEKCGAIPKIH SARVSVGEGTVAAGYQDFII CVEMFFAALALRHAFTYKVYADKRLDAQGRCAPMK
SISSSLKETMNP HDIVQDAIHNFSPAYQQYTQQSTLEPGPTWRGGAHGLSRSHSLSGARDNEKTLLLSSDDEF

[illegible]

6561/6881
FIGURE 6057

MPFFGNTFSPKKTPPRKSASLSNLHSLDRSTREVELGLEYGSP TMNLAGQSLKFENGQWIAETGVSGGVDRREVQ
RLRRRNQQLEEENLLRLKVDILLDMLSESTAESHLMEKELDELRLSRKRK

6562/6881
FIGURE 6058

GGCACGAGGCAGTCAATGGCTGCCGCCGTCGCTGCTGCCGGTGCAGGGGAACCCCAGTCCCCGGACGAATTGCTCC
CGAAAGGCGACGCGGAGAAGCCTGAGGAGGAGCTGGAGGAGGACGACGATGAGGAGCTAGATGAGACCCTGTCGG
AGAGACTATGGGGCCTGACGGAGATGTTTCCGGAGAGGGTCCGGTCCGCGGCCGGAGCCACTTTTGATCTTTCCC
TCTTTGTGGCTCAGAAAATGTACAGGTTTTCCAGGGCAGCCTTGTGGATTGGGACCACTTCCTTTATGATCCTGG
TTCTTCCCGTTGTCTTTGAGACGGAGAAGTTGCAAATGGAGCAACAGCAGCAACTGCAGCAGCGGCAGATACTTC
TAGGACCTAACACAGGGCTCTCAGGAGGAATGCCAGGGGCTCTACCCTCACTTCCTGGAAAGATCTAGATTGTTA
TTGCTGTTTGAGCTGTCTCAGTGGGATAAGTTTGAAATCAAGTGTTTGAAGTCTGATAATTGGATTTTTTTT
TTTTTAACTTTGGCACATTGATCTATCTAAACCCGGTGGGGAGAATTATCCCCACATTGTCTCATGGAAAGACTC
AACTTGCAACTGTGCCCTCCACACTATCCTTACTTCTGTCTCCACTCTGATACCAGAGTGCAGCCATGCAGACGG
TTATTCCAGCTCTGGTCACCCGACTCCTTTCACCAAATTGCTCCTAACTGGAAGATCTCACTTTCCCCTTGTGGG
GTAGGAACCGATGCCAGTGGGAGGGATGTGCCCTGACCATTAACGACTGTTTTTTTTTTTTTTTTTAAAGAATG
GAGTTGTTGGGGCGGGACATGCACACAATGTGAAACAGACAAAATGCATTACACCTGTAGTGTAAGTGGCCACT
ATGAATCCCTATGTATGAGAGGAGGGAGGCAGGCTGCAGCTTCAGCCACAGAATGGGGACTATGGAAGACAGCAG
GAGCTCATTTCTCTGCACATTTTGGCTGTTAGACCTGTGTGTGTGTTTAAAAAAGAGAAGTCAGTGCTCACTT
TTTGTATTTAAATATTAAAAATGATTCCAAGTAAAAAAAAAAAAAAAAAAAA

6563/6881
FIGURE 6059

MAAAVAAAGAGEPQSPDELLPKGDAEKPEEELEEDDDEELDETLSERLWGLTEMFPERVRSAGATFDLSLFVAQ
KMYRFSRAALWIGTTSFMLVLPVVFETEKLQMEQQQLQQRQILLGPNTGLSGGMPGALPSLPGKI

6564/6881
FIGURE 6060

ACTTTAAAGAGGGGCTGCTCAACTGCAAGGACGCTGTAAGCAGGAAGAGAAGCCACAGCGCTTCAGAAAAGAGTGG
GACAGGGACAAGCATATCTAAGAGGCTGAACATGAATCCACAGATCAGAAACCCGATGAAGGCAATGTATCCAGG
CACATTCTACTTCCAATTTAAAAACCTATGGGAAGCCAACGATCGGAACGAAACTTGGCTGTGCTTCACCGTGGA
AGGTATAAAGCGCCGCTCAGTTGTCTCCTGGAAGACGGGCGTCTTCCGAAACCAGGTGGATTCTGAGACCCATTG
TCATGCAGAAAGGTGCTTCCTCTCTTGGTTCTGCGACGACATACTGTCTCCTAACACAAAGTACCAGGTCACCTG
GTACACATCTTGGAGCCCTTGCCAGACTGTGCAGGGGAGGTGGCCGAGTTCCTGGCCAGGCACAGCAACGTGAA
TCTCACCATCTTCACCGCCCGCTCTACTACTTCCAGTATCCATGTTACCAGGAGGGGCTCCGCAGCCTGAGTCA
GGAAGGGGTCGCTGTGGAGATCATGGACTATGAAGATTTTAAATATTGTTGGGAAAACTTTGTGTACAATGATAA
TGAGCCATTCAAGCCTTGGAAGGGATTAAAAACCAACTTTCGACTTCTGAAAAGAAGGCTACGGGAGAGTCTCCA
GTGAGGGGTCTCCCTGGGCCTCATGGTCTGTCTCCTCTAGCCTCCTGCTCATGCTGCACGGGCCTCCCCTCCACC
CTGGACCCGCTCTGTTTCTGCCTGGTCATCCTGAGCCCCCTCCTGGCCTCAGGGCCATTCCACAGTGCTCCCCTGC
CTCACCCTTCCTCCTCGCTCTTCCAGACTCTTCCTGCAGAGGCTCCTTTCTGCCTCCATGGCTATCCATCCACC
CCCACAGACCCCGTTCTCCAGCCTGCGTGCCCCCTAACCTGGCTTTTCCCATCTCCCCAGCATAACCAAATCTTA
CTAAACTCATCCTAGGCTGGGCATGGTGACTCACGCCTGTAATCCCCCAGCAATTTGGGAGGCAAAGGTGGGAGA
ATCGCGTGAGCCCAGGAGTTCCAGACCAGGCTGGGTACATGACAAAGCCCCATCTCTACAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAG

6565/6881
FIGURE 6061

CTCTACCGGCGGGGATTTGATGGCGTGATGTCTCACAGAAAGTTCTCCGCTCCCAGACATGGGTCCCTCGGCTTCC
TGCTCGGAAGCGCAGCAGCAGGCATCGTGGGAAGGTGAAGAGCTTCCCTAAGGATGACCCGTCCAAGCCGGTCC
ACCTCACAGCCTTCCTGGGATACAAGGCTGGCATGACTCACATCGTGCGGGAAGTCGACAGGCCGGGATCCAAGG
TGAACAAGAAGGAGGTGGTGGAGGCTGTGACCATTGTAGAGACACCACCCATGGTGGTTGTGGGCATTGTGGGCT
ACGTGGAAACCCCTCGAGGCCCTCCGGACCTTCAAGACTGTCTTTGCTGAGCACATCAGTGATGAATGCAAGAGGC
GTTTCTATAAGAATTGGCATAAATCTAAGAAGAAGGCCTTTACCAAGTACTGCAAGAAATGGCAGGATGAGGATG
GCAAGAAGCAGCTGGAGAAGGACTTCAGCAGCATGAAGAAGTACTGCCAAGTCATCCGTGTCATTGCCCACACCC
AGATGCGCCTGCTTCCTCTGCGCCAGAAGAAGGCCACCTGATGGAGATCCAGGTGAACGGAGGCACTGTGGCCG
AGAAGCTGGACTGGGCCCCGAGAGGCTTGAGCAGCAGGTACCTGTGAACCAAGTGTTTGGGCAGGATGAGATGA
TCGACGTCATCGGGGTGACCAAGGGCAAAGGCTACAAAGGGGTCACCAGTCGTTGGCACACCAAGAAGCTGCCCC
GCAAGACCCACCGAGGCCTGCGCAAGGTGGCCTGTATTGGGGCATGGCATCCTGCTCGTGTAGCCTTCTCTGTGG
CACGCGCTGGGCAGAAAGGCTACCATCACCGCACTGAGATCAACAAGAAGATTTATAAGATTGGCCAGGGCTACC
TTATCAAGGACGGCAAGCTGATCAAGAACAATGCCTCCACTGACTATGACCTATCTGACAAGAGCATCAACCCTC
TGGGTGGCTTTGTCCACTATGGTGAAGTGACCAATGACTTTGTTCATGCTGAAAGGCTGTGTGGTGGGAACCAAGA
AGCGGGTGCTCACCCCTCCGCAAGTCCTTGCTGGTGCAGACGAAGCGGCGGGCTCTGGAGAAGATTGACCTTAAGT
TCATTGACACCACCTCCAAGTTTGGCCATGGCCGCTTCCAGACCATGGAGGAGAAGAAAGCATTTCATGGGACCAC
TGAAGAAAGACCGAATTGCAAAGGAAGAAGGAGCTTAATGCCAGGAACAGATTTTGCAGTTGGTGGGGTCTCAAT
AAAAGTTATTTTCCACTGAAAAAAAAAAAAAAAAAAAAA

6566/6881
FIGURE 6062

MSHRKFSAPRHGSLGFLPRKRSSRHGKVKSF PKDDPSKPVHLTAFLGYKAGMTHIVREVDRPGSKV NKKEVVEA
VTIVETPPMVVVGIVGYVETPRGLRTFKTVFAEHISDECKRRFYKNWHKS KKKAF TKYCKKWQDE DGKKQLEKDF
SSMKKYCQVIRVIAHTQMRLPLRQKKAHLM EIQVNGGTVAEKLDWARERLEQQVPVNQVFGQDE MIDVIGVTKG
KGYKGVTSRWHTKKLPRKTHRGLRKVACIGAWHPARVAFS VARAGQKGYHHRTEINKKIYKIGQGYLIKDGKLIK
NNASTDYDLSDKSINPLGGFVHYGEVTNDFV MLKGCVVGTKKRVLTLRKSLLVQTKRRALEKIDLK FIDTTSKFG
HGRFQTMEKKAFMGPLKKDRIAKEEGA

6567/6881
FIGURE 6063

CCCGCAGGGGTTCTCCAAGATGGCGGCGCAGAGGAGGAGCTTGCTGCAGAGTGAGCAGCAGCCAAGCTGGACAG
ATGACCTGCCTCTCTGCCACCTCTCTGGGGTTGGCTCAGCCTCCAACCGCAGCTACTCTGCTGATGGCAAGGGCA
CTGAGAGCCACCCGCCAGAGGACAGCTGGCTCAAGTTTCAAGGAGTGAGAACAACCTGCTTCTGTATGGGGTCTTCA
ACGGCTATGATGGCAACCGAGTGACCAACTTCGTGGCCAGCGGCTGTCCGCAGAGCTCCTGCTGGGCCAGCTGA
ATGCCGAGCACGCCGAGGCCGATGTGCGGCGTGTGCTGCTGCAGGCCTTCGATGTGGTGGAGAGGAGCTTCTTG
AGTCCATTGACGACGCCTTGGCTGAGAAGGCAAGCCTCCAGTCGCAATTGCCAGAGGGAGTCCCTCAGCACCAGC
TGCTTCTCAGTATCAGAAGATCCTTGAGAGACTCAAGACGTTAGAGAGGGAAATTTCTGGGAGGGGCCATGGCCG
TTGTGGCGGTCTTCTCAACAACAAGCTCTACGTCGCCAATGTGGGTACAAACCGTGCACTTTTATGCAATCGA
CAGTGGATGGGTTGCAGGTGACACAGCTGAACGTGGACCACACCACAGAGAACGAGGATGAGCTCTTCCGCTCTT
CGCAGCTGGGCTTGGATGCTGGAAAGATCAAGCAGGTGGGGATCATCTGTGGGCAGGAGAGCACC CGCGGATCG
GGGATTACAAGGTTAAATATGGCTACACGGACATTGACCTTCTCAGCGCTGCCAAGTCCAAACCAATCATCGCAG
AGCCAGAAATCCATGGGGCACAGCCGCTGGATGGGGTGACGGGCTTCTTGGTGCTGATGTCGGAGGGGTTGTACA
AGGCCCTAGAGGCAGCCCATGGGCTGGGCAGGCCAACCAGGAGATTGCTGCGATGATTGACACTGAGTTTGCCA
AGCAGACCTCCCTGGACGCAGTGGCCAGGCCGCTCGTGGACCGGGTGAAGCGCATCCACAGCGACACCTTCGCCA
GTGGTGGGGAGCGTGCCAGGTTCTGCCCCGGGCAGGAGCATGACCCTGCTAGTGAGGAACCTTGGCTACCCGC
TGGGCGAAATGAGCCAGCCACACCGAGCCAGCCCGAGCTGCAGGAGGACGAGTGTACCTGTGTCTGTGCCAT
ACTCCAGCGCCAGAGCACCAGCAAGACCAGCGTGACCCTCTCCCTTGTGATGCCCTCCAGGGCCAGATGGTCA
ACGGGGCTCACAGTGCTTCCACCCTGGACGAAGCCACCCCCACCCTCACCAACCAAGCCCGACCTTAACCTGTC
AGTCCACCAACACGCACACGCAGAGCAGCAGCTCCAGCTCTGACGGAGGCCTCTTCCGCTCCCGCCCCGCCACT
CGCTCCCGCCTGGCGAGGACGGTCGTGTTGAGCCCTATGTGGACTTTGCTGAGTTTTACCGCCTCTGGAGCGTGG
ACCATGGCGAGCAGAGCGTGGTGACAGCACCGTAGGGCAGCCGAGAATGCAGCCCAAGCAGGGCCTGGCATGGG
GCAGGACAGGGTCCAGCCTTTTCTAACATCTGCCTGTGCCACAACGGCCAGCAGGTGCCCCATCTCTGCCAC
AGCAGACTCTGTCCCATGGCTCTCCGGGCAGTAGAGTGTGTGAGTGAGACTGGACCTGTGGTTCATACCTTGTG
ACCACCCGGGAAGCTGAAGGCCACTTCTCCAGATGGCCTCAGCCAGGACCATCGCCCTTCTCAGAGCAGAGG
GCCAGGTATAGAAACCGCAGTGGGCCTGCAAGCCGCCGAGCCTCCCGAGCAGCCTCTACAGAGCAGGAAGAGG
CGCCCTGTGAACCCTGAGTGTTGCAGGCCAGCAGACCCTGTGTGCCAAGCCCAACCCCTCTCCACCATCACC
TCCCTCACCTCGGGACAGTAGCCCTCCACTTCTCCAGCCTCTCAGCCCTGTGCTCCTGCATCCAGAGTGGAACCC
AGGCTGGTGTCCGCATCTGTCCCTGGGCCCCACCCCTGGACCTGCCTTGGTTGTGTGTCATCTGTTGTAAACGTTCA
GGAGGACCAGGGCAGCATCTGGGGCCTGGGATGGCCACAGAAGGGGCAGGCCAGGTGGAAGGAGCCAGGGGGAA
GTGGTCTAAGAGACCTGGAAGTCCAGAGGATGGCGGCTGGGCTTCCCAGAGCCAGGCGTGCGGGAGAGGTGA
GGACTGGCCCCGGTGGGCTGAGGCAGGGGCCGCTGTGTCAGGCCTGAGCCAGGGTGAGCTGGTGCCTGCCTTGC
ATTTTCTTCTGGTGCTGTGAAGACCATAGGCTGGCAGGCAGCTGAGATGAACTGTCTTTACCACTGATGAGGGG
CCTCTGCCGGCTGAGGGTAGCAAGCAGGGGTTGTGAGTCAGGCTGGGGGACTTGTTTGAAAGAAAGAGGAGTGGA
AAATGGTTCCAGGAGGGAAGAGGTTCTTTGAGACACAGTACCTGGGAGGCATAGGAGAAGGGTCGGGCCAGCCC
AGCCCAGGGCCTGAGTTAGACTATTTCCACATGTTCTCTGCCCTCAGTGGGGAGGGGGTGCCACCAGGGCTGTC
GGCCAGGATTGCCACTCCTGTTTCAGAGGAAGCAGGCCGAGAGACTTGACCTTGGCCAAGCCACACAATCAGTG
GGGCAGCCAGAGCTCAGACCTGAGCCATTTTGTGAGTATCCAGGACCCCCCGATTCTCCACGCCCTCCCCATCT
CCCAGTCTCCCTGCCCCCATGCCCCAGACCGGCCACCAGGGACTAGCCGCTGTGCGACAGCCTCTGGGGTGCT
TGGTCTCTGCGAAGTCAAAGGCCTGACAGCTCTGTGGCCTGGGAATCCATTTTCTGCGGCAGAGCAGGGCCTGG
TGTGGAACCAGGGAGCTGTGGGAAGCCACAGCAGAAATGGAAGAAAACAGGTCTCAGCCAGGGTCTCTGCTCA
CTCCCTCACTCCCCACTTTGAAGCCATCTCTGTTCTGCAGGTGAGAGGATTTAAAGTCAGTCACAAAGGCTTGGG
AACAAAAGGAATTC

6568/6881
FIGURE 6064

TGATGGGTGACCCGGGGAGAGGTACCCGGCCAGAGGCGAGTCCTGCGGAGTGGTAGCGCGCACGGCCTGCGGTGT
GACACCCAGCCCCCTGCCAGTCCCCCATGGCCCCGTGGAGCCGAGAGGCGGTGCTGAGTCTCTATCGGGCTCTGTT
GCGCCAGGGCCGACAGCTTCGCTACACTGATCGAGACTTCTACTTTGCCTCCATCCGCCGTGAATTCCGAAAAAA
TCAGAAGCTAGAGGACGCTGAGGCCCGGGAGAGGCAGCTGGAGAAGGGCCTGGTCTTTCTCAACGGCAAATTGGG
GAGGATCATTTAGGATCCTCCAAGGGAAAGAGGACAAAGGTGCCTTCTGTAGACACTCCTGCTCTCTTCCATCCC
CATCTTACAGATGTATTAAGAAGCCTCAGATGAGCAATGGCAGGCGCTGGTGAGCGCAAAGGCAAGAAGGATGAC
AATGGCATTGGCACGGCCATTGACTTTGTGCTCTCCAATGCCCGCTGGTGTGGGGGTGGGTGGAGCGGCCATG
CTGGGCATCGCCACGCTGGCAGTTAAGCGGATGTACGATCGGGCGATCAGTGCCCCCTACCAGCCCCACCCGCTG
AGCCATTCGGGGAAAAGGAGCTGGGAAGAACCCTGAGTGGGCTCCCCACGACTGCTGAACAGGGACATGAAG
ACGGGCCTGAGCCGGTCTTGCAGACCCTTCCACAGACTCCTCCACCTTCGACACAGATACATTCTGCCCGCCC
CGGCCCCAAGCCAGTGGCCAGGAAGGGCCAGGTAGACTTGAAGAAGTCACGACTCCGATGTCCCTGCAGGAGAAA
CTTCTTACTTACTACCGGAACCGGGCAGCCATCCCTGCTGGAGAGCAGGCTCGGGCCAAGCAAGCTGCTGTGGAC
ATATGTGCCGAGCTCCGGAGCTTCTGCGGGCCAAGTTGCCTGACATGCCGCTTCGGGACATGTACTTGAGTGGC
AGCCTCTACGATGACCTGCAGGTGGTGACAGCTGACCACATCCAATCATTGTGCCCTTGTGCTGGAGCAGAAC
CTGTGGTCATGTATTCTTGGTGAAGACACCATCATGAATGTCCCTGGCTTCTTCTTGGTGCGTCGTGAGAATCCA
GAGTACTTTCTCTGTTGGGAGCAGTTACTGGGACCGCTGTGTAGTAGGGGGCTACCTCTCTCCAAAGACAGTCGCA
GATACATTTGAGAAGGTAGTGGCTGGCTCCATCAATTGGCCAGCCATAGGGTCCCTCTTGGACTATGTGATCCGC
CCGGCCCCACCCCCAGAAGCCCTCACACTGGAGGTGCAGTATGAGCGTGACAAACATCTCTTCATTGACTTCCTG
CCATCAGTGACCTCGGTGACACAGTCTTGGTGGCCAAACCACACCGGCTAGCCAGTATGACAACCTGTGGCGG
CTGAGCCTGCGTCCCGCGGAGACGGCACGCCTGCGGGCTCTGGACCAGGCTGACTCGGGCTGCCGATCTCTGTGC
CTCAAGATCCTCAAGGCCATATGCAAGTCCACCCCGGCTCTGGGCCACCTCACTGCCAGCCAGCTAACCAATGTC
ATCCTCCACTTGGCCCAGGAGGAGGCTGACTGGTCTCCGATATGCTGGCCGACCGTTTCTGTCAGGCCTTGAGG
GGACTTATCAGCTACTTAGAGGCTGGAGTCTTCCAGTGCCTTAAACCCCAAGGACAAGGCCTTGAAGGAACGC
AGCCTTAGACATCAGGTGAGGATGATGGAGGTAGACAGTCGACTGAATGTCAGCTGGAAAAATCCAGTCACTAGTT
GGGGTTTGGTGGCCATGTTTTCTACCCAGACAGGCCCTGCTTTTCTAGGATGTGGCCTTAGAGCAAGAACAGACC
CAACAGCCAGCCCTTCATCCTCCAGCGTCTGCCATAGGAATGTGAGAGGGGTGTTTGTGAGCGCTCCGGGCACG
GCCAGAGGGCAAGTGAGCATGCACGGACCTTCCCCCTGTCTGTTTCTCACCAGCACCTGGGGAGATCGGTG
CTACCAAGGAAGAGAGCACACAGATAAGACAGAGGGGAGGAGGTGGGCATTTCTACATTCTCTCTTGTGGCG
CTGCTGAGATTGCAGTATTTATTGCAATGTAAATGTATCCTGAAGGTGGGGAGGAATGTTAATCTACCATGTCC
GTGTGTC

6569/6881
FIGURE 6065

GAAAACTCAGGCTTGGAACAGCACCTCGCGCGATAACCTGGCGTCCTCGGCCTTCACAATAAAACTCTTCGCCG
GAAAACGACCTTTCCCCGCCCACTGCGCTGACACCGGAAGCGAGGCGTGTCTGGGAGATCACTCCGCGCTCCGGC
GGCGAAGGAAAGAACGGACTCTGATCATAGAAGCCTAGTAAAGTAGTACACCTCTCTCCTTTCTGTGAGGCCATAA
GAACAAACTCCTTTTCTCGTCACAGCTACGCCCTGGGCATAAACGGTTGGGGCGTCAAAGGGAGGGAGGGAAGGG
AGCGGGCGGGAGGAGACGGTCACGTGGTCGCGGCGGAAGGATGCGTCTGTGCTGCGTCCCCATAGAGACGAAGTC
TATAAAGGGCCGGCGGGCGGCCACGGCAGCCATTTCTACTTTGCCCGCCACAGATGTAGTTTTCTCTGCGCGTG
TGCGTTTTCCCTCCTCCCCGCCCTCAGGGTCCACGGCCACCATGGCGTATTAGGGGCAGCAGTGCCTGCGGCAGC
ATTGGCCTTTTGACGCGCGGCAGCAGCACCAGGCTCTGACGCGGCAACCCCCAGCGGCTTAAGCCATGGCCAGCG
TTGCTGTAAACCGACAAAGACACCTTCGAATTAAGCACATTCCCTCGATTCCAGCAAAGCACCGCAACATGACCGAA
ATGAGCTTCCTGAGCAGCGAGGTGTGGTGGGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAA
GAAAGCCTAGGTCTCTTAGATGATTACCTGGAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGCGACAAG
GCTAAGGCGGGCTCCTCCGAATGGCTGGCTGTGGATGGGTTGGTCAGTCCCTCCAACAACAGCAAGGAGGATGCC
TTCTCCGGGACAGATTGGATGTTGGAGAAAATGGATTTGAAGGAGTTCGACTTGGATGCCCTGTTGGGTATAGAT
GACCTGGAAACCATGCCAGATGACCTTCTGACCAGTTGGATGACACTTGTGATCTCTTTGCCCCCTAGTCCAG
GAGACTAATAAGCAGCCCCCCCCAGACGGTGAACCCAATTGGCCATCTCCAGAAAGTTTAACAAAACCCGACCAG
GTTGCCCCCTTCACCTTCTTACAACCTCTTCCCCCTTTCCCCAGGGGTCTGTCTCCTCCACTCCAGATCATTCTTT
AGTTTAGAGCTGGGCAGTGAAGTGGATATCACTGAAGGAGATAGGAAGCCAGACTACACTGCTTACGTTGCCATG
ATCCCTCAGTGCATAAAGGAGGAAGACACCCCTTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCCTAT
CTGGGGTCTCCTCAGCACAGCCCCCTTACCAGGGGCTCTCCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTGT
GGGTCTGCCCCGTCCCAAACCTTACGATCCTCCTGGAGAGAAGATGGTAGCAGCAAAAGTAAAGGGTGAGAACTG
GATAAGAAGCTGAAAAAATGGAGCAAAACAAGACAGCAGCCACTAGGTACCGCCAGAAGAAGAGGGCGGAGCAG
GAGGCTCTTACTGGTGAGTGCAAAGAGCTGGAAAAGAAGACGAGGCTCTAAAAGAGAGGGCGGATTCCCTGGCC
AAGGAGATCCAGTACCTGAAAGATTTGATAGAAGAGGTCCGCAAGGCAAGGGGGAAGAAAAGGGTCCCCTAGTTG
AGGATAGTCAGGAGCGTCAATGTGCTTGTACATAGAGTGCTGTAGCTGTGTGTTCCAATAAATTATTTGTAGGG
AAAGT

6570/6881
FIGURE 6066

GTCCGTCGCAGCCCGCTCGGGCCCGTTCGCGCCCGTCCTGTCCGCCACGTCCCGCGGGGTGGCGGGCGCGCTGCG
GCCCTTGGTGCAGGCCACGGTGCCCGCCACCCCGGAGCAGCCTGTGTTGGACCTGAAGCGGCCCTTCCTCAGCCG
GGAGTCGCTGAGCGGCCAGGCCGTGCGCCGGCCCTTTGGTCGCCTGCGTGGGCCTCAATGTCCCTGCTTCTGTTTG
TTATTCCACACAGACGTCAAGGTGCCTGACTTCTCTGAATACCGCCGCTTGAAGTTTTAGATAGTACGAAGTC
TTCAAGAGAAAGCACCGAGGCTAGGAAAGGTTTCTCCTATTTGGTAACTGGAGTAACTACTGTGGGTGTCGCATA
TGCTGCCAAGAATGCCGTACCCAGTTCGTTTCCAGCATGAGTGCTTCTGCTGATGTGTTGGCCCTGGCGAAAAT
CGAAATCAAGTTATCCGATATTCCAGAAGGCAAGAACATGGCTTTCAAATGGAGAGGCAAACCCCTGTTTGTACG
TCATAGAACCCAGAAGGAAATTAAGCAGGAAGCTGCAGTTGAATTATCACAGTTGAGGGACCCACAGCATGATCT
AGATCGAGTAAAGAAACCTGAATGGGTTATCCTGATAGGTGTTTGCACTCATCTTGTTGTGTACCCATTGCAAA
TGCAGGAGATTTTGGTGGTTATTACTGCCCTTGCCATGGGTCACACTATGATGCATCTGGCAGGATCAGATTGGG
TCCTGCTACTCTCAACCTTGAAGTCCCCACGTATGAGTTCACCACTGACGATATGGTGATTGTTGGTTAGAGACT
TGGACTCAAGTCATAGGCTTCTTTCAGTCTTTATGTCACCTCAGGAGACTTATTTGAGAGGAAGCCTTCTGTACT
TGAAGTTGATTTGAAATATGTAAGAATTGATGATGTATTTGCAAACATTAATGTGAAATAAATTGAATTTAATGT
TGAATACTTTCAGGCATTCACTTAATAAAGCCACTGTTAAGCACTGTTATGCTCAGTCATACACGCGAAAGGTAC
AACGTCTTTTAGCTAATTCTAATTAAAAATTACAGACTGGTGTACAAGATACTTGTG

6571/6881
FIGURE 6067

MSASADVLALAKIEIKLSIDIPEGKNMAFKWRGKPLFVRHRTQKEIKQEAAVELSQLRDPQHDLDRVKKPEWVILI
GVCTHLGCVPIANAGDFGGYYCPCHGSHYDASGRIRLGPATLNLEVPTYEFTSDDMVIVG

6572/6881
FIGURE 6068

CCATGGCGGCTGGAGGCGATCATGGTTCGCCCCACAGCTACCGCTCACCTCTTGCCTCCCGCTATGCCAGCCCGG
AGATGTGCTTCGTGTTTAGCGACAGGTATAAATTCCGGACATGGCGGCAGCTGTGGCTGTGGCTGGCGGAGGCCG
AGCAGACATTGGGTTTGCCTATCACAGATGAACAAATCCAGGAGATGAAATCAAACCTGGAGAACATAGACTTCA
AGATGGCAGCTGAGGAAGAGAAACGTTTACGACATGATGTGATGGCTCACGTGCACACATTTGGCCACTGCTGTC
CAAAAGCTGCAGGCATTATTACCTTGGTGCTACTTCTTGCTATGTTGGAGACAATACTGACTTGATTATTCTTA
GAAATGCACTTGACCTGCTTTTGCCAAAGCTTGCCAGAGTGATCTCTCGGCTTGCCGACTTTGCTAAGGAACGAG
CCAGTCTACCCACATTAGGTTTACACATTTCCAGCCTGCACAGCTGACCACAGTTGGGAAACGTTGCTGTCTTT
GGATTGAGGATCTTTGCATGGATCTCCAGAACTTGAAGCGTGTCCGAGATGACCTGCGCTTCCGGGGAGTAAAGG
GTACCACTGGCACTCAGGCCAGTTTCTGTCAGCTCTTGAGGGAGATGACCATAAGGTAGAGCAGCTTGACAAGA
TGGTGACAGAAAAGGCAGGATTTAAGAGAGCTTTCATCATCACAGGGCAGACATATACAGAAAAGTGGATATTG
AAGTACTGTCTGTGCTGGCTAGCTTGGGGGCATCAGTGACAAAGATTTGCACCGACATACGCCTCTTGCCAAACC
TCAAGGAGATGGAGGAACCCCTTTGAAAAACAGCAGATTGGCTCAAGTGGATGCCATATAAGCGGAATCCCATGC
GTTGAGAACGTTGCTGCAGTCTTGCCCGCCACCTGATGACCCTTGTCATGGACCCGCTACAGACAGCATCTGTCC
AGTGGTTTGAACGCACACTGGATGATAGTGCCAACCGACGGATCTGTTTGGCCGAGGCATTTCTTACCGCAGATA
CTATATTGAATACGCTGCAGAACATTTCTGAAGGATTGGTCGTGTACCCCAAAGTAATTGAACGGCGCATTTCGGC
AAGAGCTGCCTTTTCATGGCCACAGAGAACATCATCATGGCCATGGTCAAAGCTGGAGGTAGCCGCCAGGATTGCC
ATGAGAAAATCAGAGTGCTTTCTCAGCAGGCAGCTTCTGTGGTTAAGCAGGAAGGGGGTGACAATGACCTCATAG
AGCGTATCCAGGTTGATGCCTACTTCAGTCCCATTCCTCCAGTTGGATCATTACTGGATCCTTCTTCTTTCA
CTGGTCGTGCCTCCCAGCAGGTGCAGAGATTCTTAGAAGAGGAGGTGTATCCCCTGTTAAACCATATGAAAGCG
TGATGAAGGTGAAAGCAGAATTATGTCTGTAGAGTTGGAAGAGAATTAAACGAAAATCATTGTTAATTGCTGAGG
CATGAAAATTGTGTTACTATAACGCCTTATTTTACCTCGAGAATTGTTACCTTAAATTAGTACAGCACTTTCTTC
TTCCCATGGTGCTTTCTGTTTCTCAGTCTCACATTTCTCAACAAGGCAAAAACAAAGAGCGTTGAAGTTGACTC
TGCTCTTGATAGTAAATGTAGTTCATACTTGAAAAAAAAA

6573/6881
FIGURE 6069

MAAGGDHGSPDSYRSPLASRYASPEMCFVFS DRYKFRTWRQLWLWLAEAEQTLGLPITDEQIQEMKSNLENIDFK
MAAEEEEKRLRHDVMAHVHTFGHCCPKAAGIIHLGATSCYVGDNLDLIILRNALDLLLLPKLARVISRLADFAKERA
SLPTLGFTHFQPAQLTTVGKRCCLWIQDLCMDLQNLKRVRRDRLRFRGVKGTGTQASFLQLFEGDDHKVEQLDKM
VTEKAGFKRAFIITGQTYTRKVDIEVLSVLASLGASVHKICTDIRLLANLKEMEEPFKQQIGSSAMPYKRNPMP
SERCCSLARHMLTMLVMDPLQTASVQWFERTLDDSANRRICLAEAFLTADTILNTLQNISEGLVVYPKVIERRIRQ
ELPFMATENIIMAMVKAGGSRQDCHEKIRVLSQQAASVVKQEGGDNDLIERIQVDAYFSPIHSQLDHLLDPSSFT
GRASQQVQRFLEEEVYPLLKPYESVMKVKAELCL

6574/6881
FIGURE 6070

GGGTGGGAGGAGCCAGCGGCCGGGGAGGTTCTAGTCTGTTCTGTCTTGCGGCAGCCGCCCCCTTCTGCGCGGTCA
CGCCGAGCCAGCGCCTGGGCCTGGAACCGGGCCGTAGCCCCCAGTTTCGCCCACCACCTCCCTACCATGGACC
CCCGCAAAGTGAACGAGCTTCGGGCCTTTGTGAAAATGTGTAAGCAGGATCCGAGCGTTCTGCACACCGAGGAAA
TGCGCTTCCTGAGGGAGTGGGTGGAGAGCATGGGTGGTAAAGTACCACCTGCTACTCAGAAAGCTAAATCAGAAG
AAAAATACCAAGGAAGAAAAACCTGATAGTAAGAAGGTGGAGGAAGACTTAAAGGCAGACGAACCATCAAGTGAGG
AAAGTGATCTAGAAATTGATAAAGAAGGTGTGATTGAACCAGACACTGATGCTCCTCAAGAAATGGGAGATGAAA
ATGCGGAGATAACGGAGGAGATGATGGATCAGGCAAATGATAAAAAAGTGGCTGCTATTGAAGCCCTAAATGATG
GTGAATCCAGAAAGCCATTGACTTATTCACAGATGCCATCAAGCTGAATCCTCGCTTGGCCATTTTGTATGCCA
AGAGGGCCAGTGTCTTCGTCAAATTACAGAAGCCAAATGCTGCCATCCGAGACTGTGACAGAGCCATTGAAATAA
ATCCTGATTGAGCTCAGCCTTACAAGTGGCGGGGAAAGCACACAGACTTCTAGGCCACTGGGAAGAAGCAGCCC
ATGATCTTGCCCTTGCCCTGTAAATTGGATTATGATGAAGATGCTAGTGCAATGCTGAAAGAAGTTCAACCTAGGG
CACAGAAAATTGCAGAACATCGGAGAAAGTATGAGCGAAAACGTGAAGAGCGAGAGATCAAAGAAAGAATAGAAC
GAGTTAAGAAGGCTCGAGAAGAGCATGAGAGAGCCAGAGGGAGGAAGAAGCCAGACGACAGTCAGGAGCTCAGT
ATGGCTCTTTTCCAGGTGGCTTTCCTGGGGGAATGCCTGGTAATTTTCCCGGAGGAATGCCTGGAATGGGAGGGG
GCATGCCCTGGAATGGCTGGAATGCCTGGACTCAATGAAATTCCTTAGTGATCCAGAGGTTCTTGACGCCATGCAGG
ATCCAGAAGTTATGGTGGCTTTCAGGATGTGGCTCAGAACCCAGCAAATATGTCAAATACCAGAGCAACCCAA
AGGTTATGAATCTCATCAGTAAATTGTCAGCCAAATTTGGAGGTCAAGCGTTAATGTCTTCTGATAAATAAGCC
CTTGCTGAAGGAAAAGCAACCTAGATCACCTTATGGATGTGCAATAATACAAACCAGTGACCTCTGACCTTCT
CATCAAGAGAGCTGGGGTGCTTTGAAGATAATCCCTACCCCTCTCCCCCAAATGCAGCTGAAGCATTTTACAGTG
GTTTGCCATTAGGGTATTCAATCAGATAATGTTTTCTACTAGGAATTACAACTTTAAACACTTTTTAAATCTT
CAAAATATTTAAACAAATTTAAAGGGCTGTAAATTCCTATATTTTCTTTACTAATCATTTTGGATTTTTTC
TTTGAAATTATTGGCAGGGAATATACTTATGTATGGAAGATTACTGCTCTGAGTGAAATAAAAGTTATTAGTGCGA
GGCAAACATAACTCATTTGAGGATAAAGTTTTGTGTTGGATATGTGGTTCCTGATGCATTTTGACTTGTCTTTTA
AATGCTTTATCTTTTTCTTTAAAGATTTATTTCAATAAACTAATTGGGACCACCCGTATTTAGTAGGACCTGG
GTAGGGATTGGAAGTACTTGGCAGGGCAGCAGCAATCTTGCTGTGTTTGATATAACATGCATCCTTGGGCAGGTT
GCCCTTAAATCTTACACTGTGGTGAAGGGATGTTTTTTTGTAAATGCTGCAGTAGAGTTGGAGTACTTAGTTCTC
TTGTTGTCCAGTATATCTAATAAGTGTTTTTCATATTATTTCCACGTAAGGGAAATAAGGTAGTACTTTTCTTTT
TATATTTCTATGCTTAAATTCCTTTCTTAGTCAAAAATTGCCCAAATCTGTGTTTGCTTTCTGCTTGCTACAT
TTGTCTCCCTTACTTTTCTTGAGCTAAAGACAGGCTTTTTCCACCGGCATCATCACTGCTATCATCATTAACAGC
GTAATTATACAAGCATATTTAATGCTGAGTTTAAATTAATATGTAATACATATGGTAATTGTAGGGTAATACCCA
CAACAACCTGTAGTTTCTTACTTGGCCAAGAGAATGCTTATTTAAGTGTTAGACTTCCATTCTGGCAAAATCTTGC
CTTATCAGAAGACATTGGAAAGAGGGATTCCCTTTGGTGTTTGGTCTTCTACTTAGAAAAACCTATTGCAGTTAG
TTTATCTTGTAGTATTATCTTTGTATTCTGAAGATAAGGTTTGAATTAATTTGATACACACAGAGGGGAACCGA
TTTTTTTTATCCAATGTGAATTATAAATGAGATAATCCACAGTTATTCAATTGTGGAGTTGTTGAGACTATGAAAG
ACTCATTGTCTTTGTATTGAGCTCTTAAATAGTGTAATATATCCCCACCTCTGCTTGCTTTCTTTCCCTCCCTT
CCAATGATAAAGAAAATGATAAATTTCTGTTGTGCATTCAATTCTTATTTTAAATAAGACTAAGTATAGGCATT
GTACCTGACATTGCTACGTTTCTACCAGTGTTTCAATTTAAAGTGCTAGTGTTTAAAAACATTTTCAAGGGATAA
GGCCTTCTGTACTTTGCTTATTTGAAGAATCAGTGGTAGGAGCAGTGAAGTAAATTCATGGAGTACATTTCTAA
AATACCACATTTCTGAAATCATAAATAAGTTTATTCAGGTTCTAACCCCTTGCTGTACACAAGCAGACAGAAATG
CATCTGTTACATAAATGAGAAAAAGCTATTATGCTGATGGAGCATGCTTTTTAAATCCTTTAAAAACACTCACCA
TATAAACTTGCATTTGAGCTTGTGTGTTCTTTTGTTAATGTGTAGAGTTCTCCTTTCTCGAAATTGCCAGTGTTG
ACTTGGCTTAACTCAAGAACAGTTTCTTCTGGATTCTTATTTGATTATTTAACCTAATTATATTCTAATATTG
CAAAATATTACCATAAGTGGGTAAAAGTAAATTCCTCTTCTGAAAAAAAAAAAAAAAAAAAAA

6575/6881
FIGURE 6071

MDPRKVNELRAFVKMCKQDPSVLHTEEMRFLREWVESMGKVPATQKAKSEENTKEEKPDSSKKVEEDLKADEPS
SEESDLEIDKEGVIEPDTDAPQEMGDENAEITEEMMDQANDKKVAAIEALNDGELQKAIDLFDAIKLNPRLAIL
YAKRASVFKLQKPNAAIRDCDRAIEINPDSAQPYKWRGKAHRLLGHWEEAAHDLALACKLDYDEDASAMLKEVQ
PRAQKIAEHRRKYERKREEREIKERIERVKKAREEHERAQREEEARRQSGAQYGSFPGGFPGGMPGNFPGGMPGM
GGGMPGMAGMPGLNEILSDPEVLAAMQDPEVMVAFQDVAQNPNANMSKYQSNPKVMNLI SKLSAKFGGQA

6576/6881

FIGURE 6072

CCCAAAATGGCGGCAGCGATGGATGTGGATACCCCGAGCGGCACCAACAGCGGCGCGGGCAAGAAGCGCTTTGAA
GTGAAAAAGTGGAATGCAGTAGCCCTCTGGGCCTGGGATATTGTGGTTGATAACTGTGCCATCTGCAGGAACCAC
ATTATGGATCTTTGCATAGAATGTCAAGCTAACCAGGCGTCCGCTACTTCAGAAGAGTGTACTGTCGCATGGGGA
GTCTGTAACCATGCTTTTCACTTCCACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGTCCATTGGACAAC
AGAGAGTGGGAATTCCAAAAGTATGGGCACTAGGAAAAGACTTCTTCCATCAAGCTTAATTGTTTTGTTATTCAT
TTAATTGACTTTCCCTGCTGTTACCTAATTACAAATTGGATGGAAGTGTGTTTTTTCTGCTTTGTTTTTTCAGT
TTGCTGTTTCTGTAGCCATATTGTATTCTGTGTCAAATAAAGTCCAGTTGGATTCTGG

6577/6881
FIGURE 6073

MAAAMDVDTPSGTNSGAGKKRFEVKKWNAVALWAWDIVVDNCAICRNHIMDLCECQANQASATSEECTVANGVC
NHAFHFHCISRWLKTRQVCPLDNREWEFQKYGH

6578/6881
FIGURE 6074

GCTCTTTCTCAGTGACCGGGTTCTAGGCTTAGGCGCAGACGGGTTAGGGGAGCCAACATGCCAGTGGCCCGGAGC
TGGGTTTGTGCGCAAACTTACGTGACCCGCGGAGATCCTTTGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTG
ATCGAAGAGTATGGGCTCCGGAATAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATAGAGGATTT
TTAGAGAGACGCCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATC
CGCCAGCGCCATTTCAGGGTCCGCAAGCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAG
CACATCGACTTCTCTCTGTGCTCTCCCTATGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAG
GGCCAGGGTGGGGCTGGGGCTGGAGACCACAAGGAGGAGGATTAAGCCACCTGTCCCTCCTGGGCTGCTGCATT
GTCTAGTTTTCTGCCAAATAAACAGGATCAGCGCTTTAAAAAAAAAAAAA

6579/6881
FIGURE 6075

ATGGCCTCGGAAGACATTGCCAAGCTGGCAGAGACACTTGCCAAGACTCAGGTGGCCGGGGGACAGCTGAGTTTC
AAAGGCAAGAGCCTCAAACCTCAACACTGCAGAAGATGCTAAAGATGTGATTAAAGAGATTGAAGACTTTGACAGC
TTGGAGGCTCTGCGTCTGGAAGGCAACACAGTGGGCGTGGAAGCAGCCAGGGTCATCGCCAAGGCCTTAGAGAAG
AAGTCGGAGTTGAAGCGCTGCCACTGGAGTGACATGTTACGGGAAGGCTGCGGACCGAGATCCCACCAGCCCTG
ATCTCACTAGGGGAAGGACTCATCACAGCTGGGGCTCAGCTGGTGGAGCTGGACTTAAGCGACAACGCATTTCGGG
CCCGACGGTGTGCAAGGCTTCGAGGCCCTGCTCAAGAGCTCAGCCTGCTTCACCCTGCAGGAACCTCAAGCTCAAC
AACTGTGGCATGGGCATTGGCGGCGGCAAGATCCTGGCTGCAGCTCTGACCGAATGTCACCGGAAATCCAGTGCC
CAAGGCAAGCCTCTGGCCCTGAAGGTCTTTGTGGCTGGCAGAAACCGTCTGGAGAATGATGGCGCCACTGCCTTG
GCAGAAGCTTTTAGGGTCATCGGGACCCTGGAGGAGGTCCACATGCCACAGAATGGGATCAACCACCCTGGCATC
ACTGCCCTGGCCCAGGCTTTGCTGTCAACCCCCCTGCTGCGGGTCATCAACCTGAATGACAACACCTTCACTGAG
AAGGGCGCCGTGGCCATGGCCGAGACCTTGAAGACCTTGCGGCAGGTGGAGGTGATTAATTTTGGGGACTGCCTG
GTGCGCTCCAAGGGTGCAGTTGCCATTGCAGATGCCATCCGCGGCGGCCTGCCAAGCTAAAGGAGCTGAACTTG
TCATTCTGTGAAATCAAGAGGGATGCTGCCCTGGCTGTTGCTGAGGCCATGGCAGACAAAGCTGAGCTGGAGAAG
CTGGACCTGAATGGCAACACCCTGGGAGAAGAAGGCTGTGAACAGCTTCAGGAGGTGCTGGAGGGCTTCAACATG
GCCAAGGTGCTGGCGTCCCTCAGTGATGACGAGGACGAGGAGGAGGAGGAGGAAGGAGAAGAGGAAGAAGAGGAA
GCAGAAGAAGAGGAGGAGGAAGATGAGGAAGAGGAGGAAGAAGAGGAGGAGGAGGAGGAAGAAGAGCCTCAGCAG
CGAGGGCAGGGAGAGAAGTCAGCCACGCCCTCACGGAAGATTCTGGACCCTAACACTGGGGAGCCAGCTCCCGTG
CTGTCCTCCCCACCTCCTGCAGACGTCTCCACCTTCCTGGCTTTTCCCTCTCCAGAGAAGCTCCTGCGCCTAGGG
CCCAAGAGCTCCGTGCTGATAGCCCAGCAGACTGACACGTCTGACCCCCGAGAAGGTGGTCTCTGCCTTCCTAAAG
GTGTCATCTGTGTTCAAGGACGAAGCTACTGTGAGGATGGCAGTGCAGGATGCAGTAGATGCCCTGATGCAGAAG
GCTTTCAACTCCTCGTCCTTCAACTCCAACACCTTCCTCACCAGGCTCCTCGTGCACATGGGTCTGCTCAAGAGT
GAAGACAAGGTCAAGGCCATTGCCAACCTGTACGGCCCCCTGATGGCGCTGAACCACATGGTGCAGCAGGACTAT
TTCCCCAAGGCCCTTGACCCCTGCTGCTGGCGTTCTGTGACCAAGCCCAACAGCGCCCTGGAATCCTGCTCCTTC
GCCCCCACAGTCTGCTGCAGACGCTGTACAAGGTCTAG

6580/6881
FIGURE 6076

MASEDIAKLAETLAKTQVAGGQLSFKGKSLKLNDAEDAKDVIKEIEDFDSLEALRLEGNTVGVEAARVIAKALEK
KSELKRCHWSDMFTGRLRTEIPPALISLGEGLITAGAQLVELDLSDNAFGPDGVQGFEALLKSSACFTLQELKLN
NCGMGIGGGKILAAALTECHRKSSAQGKPLALKV FVAGRNRLNDGATALAEAFRVI GTLEEVHMPQNGINHPGI
TALAQAFAVNPLL RVINLNDNTFTEKGAVAMAETLKT LRQVEVINFGDCLVRSKGAVAIADAI RGG LPKLKEINL
SFCEIKRDAALAVAEAMADKAELEKLDLNGNTLGEEGCEQLQEVL EGFNMAKVLASLSDD EEEEEEEEEEEEEEE
AEEEEEEDEEEEEEEEEEEEEEEEEEPQQRGQGEKSATPSRKILDPNTGEPAPVLSSPPP ADVSTFLAFP SPEKLLRLG
PKSSVLIAQQTDTSDEKVVSAFLKVSSVFKDEATVRMAVQDAVDALMQKAFNSSSFNSNTFLTRLLVHMGLLKS
EDKVKAIANLYGFLMALNHMVQQDYFPKALAPLLLAFVTKPNSALESCSFARHSL LQTLYKV

6581/6881
FIGURE 6077

CGGGAGGCGAGGTGCGCGAGCCGAGTCCGGGGCACG**ATG**TCCGACGCGGGCGGCGGAAAGAAGCCGCCTGTGGAC
CCGCAGGCAGGACCCGGTCCGGGGCCGGGGCGCGCAGCTGGGGAAAGGGGCCTGTCCGGGGTCCCTTCCCCCTGGTC
CTGAAGAAGCTGATGGAGAACCCCCGCGCGAGGCGCGCCTCGATAAGGAAAAGGGGAAGGAAAAGCTGGAGGAG
GACGAGGCCGCGAGCCGCCAGCACCATGGCTGTCTCAGCCTCCCTCATGCCACCCATCTGGGACAAGACCATCCCA
TATGATGGCGAATCTTTCCACCTGGAGTACATGGACCTGGATGAGTTCCCTGCTGGAGAATGGCATCCCCGCCAGC
CCCACCCACCTGGCCCAACCTGCTGCTGCCTGTAGCAGAGCTAGAAGGGAAGGAGTCTGCCAGCTCTTCCACA
GCATCCCCACCATCCTCCTCCACTGCCATCTTTTACGCCCTCTGAAACCGTGTCCAGCACAGAATCTTCCCTGGAG
AAGGAGAGGGGAGACTCCAGTCCCATCGACCCCAATTGTGTGGAAGTGGATGTGAACTTCAATCCGGACCCCGCC
GACCTGGTGCTCTCCAGTGTGCCAGGCGGGGAGCTCTTCAACCCTCGGAAGCACAAAGTTTGCTGAGGAGGACCTG
AAGCCCCAGCCTATGATCAAAAAGGCCAAGAAGGTCTTTGTCCCCGACGAGCAGAAGGATGAAAAGTACTGGACA
AGACGCAAGAAGAACAACGTGGCAGCTAAACGGTCACGGGATGCCCGGCGCCTGAAAGAGAATCAGATCACCATC
CGGGCAGCCTTCTGAGAGAAGGAGAACACAGCCCTGCGGACGGAGGTGGCCGAGCTACGCAAGGAGGTGGGCAAG
TGCAAGACCATCGTGTCCAAGTATGAGACCAAATACGGGCCCTTG**TAA**CCCGTGCCCCCGCCCCGGGCGGGGTAC
TGCCTGCACCTCAGACCTCTGCCTG

6582/6881
FIGURE 6078

MSDAGGGKKPPVDPQAGPGPGGRAAGERGLSGSFPLVLKKLMENPPREARLDKEKGKEKLEEDEAAAASTMAVS
ASLMPPIWDKTIPYDGESFHLEYMDLDEFLLENGIPASPTHLAHNLLLPVAELEGKESASSSTASPPSSSTAIFQ
PSETVSSTESSLEKERETPSPIDPNCVEVDVNFNPDADLVLSVPGGELFNPRKHKFAEEDLKPQPMIKKAKKV
FVPDEQKDEKYWTRRKNNVAAKRSRDARRLKENQITIRAAFLKENTALRTEVAELRKEVGKCKTIVSKYETKY
GPL

6583/6881
FIGURE 6079

CATCTTTGTCAGTGCACAAAATGCGGCCCTACAGCCTACTGGTGACTCGGCTGCAGAAAGCTCTGGGTGTGCGGC
AGTACCATGTGGCCTCAGTCCTGTGCCAACGGGCCAAGGTGGCGATGAGCCACTTTGAGCCCAACGAGTACATCC
ATTATGACCTGCTAGAGAAGAACATTAACATTGTTGCGAAACGACTGAACCGGCCGCTGACACTCTCGGAGAAGA
TTGTGTATGGACACCTGGATGACCCCGCCAGCCAGGAAATTGAGCGAGGCAAGTCGTACCTGCGGCTGCGGCCGG
ACCGTGTGGCCATGCAGGATGCGACGGCCCCAGATGGCCATGCTCCAGTTCATCAGCAGCGGGCTGTCCAAGGTGG
CTGTGCCATCCACCATCCACTGTGACCATCTGATTGAAGCCCAGGTTGGGGGCGAGAAAGACCTGCGCCGGGCCA
AGGACATCAACCAGGAAGTTTATAATTTCTGGCAACTGCAGGTGCCAAATATGGCGTGGGCTTCTGGAAGCCTG
GATCTGGAATCATTACACGATTATTCTGGAAAACATATGCGTACCCTGGTGTCTTCTGATTGGCACTGACTCCC
ACACCCCAATGGTGGCGGCCTTGGGGGCATCTGCATTGGAGTTGGGGGTGCCGATGCTGTGGATGTCATGGCTG
GGATCCCTTGGGAGCTGAAGTGCCCCAAGGTGATTGGCGTGAAGCTGACGGGCTCTCTCTCCGGTTGGTCTCTAC
CCAAAGATGTGATCCTGAAGGTGGCAGGCATCCTCACGGTGAAAGGTGGCACAGGTGCAATCGTGAATACCACG
GGCCTGGTGTAGACTCCATCTCCTGCACTGGCATGGCGACAATCTGCAACATGGGTGCAGAAATTGGGGCCACCA
CTTCCGTGTTCCCTTACAACCACAGGATGAAGAAGTACCTGAGCAAGACCGGCCGGAAGACATTGCCAATCTAG
CTGATGAATTCAAGGATCACTTGGTGCCTGACCCTGGCTGCCATTATGACCAACTAATTGAAATTAACCTCAGTG
AGCTGAAGCCACACATCAATGGGCCCTTCACCCCTGACCTGGCTCACCTGTGGCAGAAGTGGGCAAGGTGGCAG
AGAAGGAAGGATGGCCTCTGGACATCCGAGTGGGTCTAATTGGTAGCTGCACCAATTCAAGCTATGAAGATATGG
GGCGCTCAGCAGCTGTGGCCAAGCAGGCACTGGCCCATGGCCTCAAGTGCAAGTCCCAGTTCACCATCACTCCAG
GTTCCGAGCAGATCCGCGCCACCATTGAGCGGGACGGCTATGCACAGATCTTGAGGGATCTGGGTGGCATTGTCC
TGGCCAATGCTTGTGGCCCCTGCATTGGCCAGTGGGACAGGAAGGACATCAAGAAGGGGGAGAAGAACAACATCG
TCACCTCCTACAACAGGAACCTTACGGGCCGCAACGACGCAACCCCGAGACCCATGCCTTTGTACGTCCCCAG
AGATTGTCACAGCCCTGGCCATTGCGGGAACCCCTCAAGTTCAACCCAGAGACCGACTACCTGACGGGCACGGATG
GCAAGAAGTTCAGGCTGGAGGCTCCGGATGCAGATGAGCTTCCCAAAGGGGAGTTTGACCCAGGGCAGGACACCT
ACCAGCACCCACCAAGGACAGCAGCGGGCAGCATGTGGACGTGAGCCCCACCAGCCAGCGCCTGCAGCTCCTGG
AGCCTTTTGTACAAGTGGGATGGCAAGGACCTGGAGGACCTGCAGATCCTCATCAAGGTCAAAGGGGAAGTGTACCA
CTGACCACATCTCAGCTGCTGGCCCCTGGCTCAAGTTCCGTGGGCACTTGGATAACATCTCCAACAACCTGCTCA
TTGGTGCCATCAACATTGAAAACGGCAAGGCCAACTCCGTGCGCAATGCCGTCACTCAGGAGTTTGGCCCCGTCC
CTGACACTGCCCCTACTACAAGAAACATGGCATCAGGTGGGTGGTGATCGGAGACGAGAACTACGGCGAGGGCT
CGAGCCGGGAGCATGCAGCTCTGGAGCCTCGCCACCTTGGGGGCGGGCCATCATCACCAGAGCTTTGCCAGGA
TCCACGAGACCAACCTGAAGAAACAGGGCCTGCTGCCTCTGACCTTCGCTGACCCGGCTGACTACAACAAGATTC
ACCCTGTGGACAAGCTGACCATTAGGGCCTGAAGGACTTCACCCCTGGCAAGCCCCTGAAGTGCATCATCAAGC
ACCCCAACGGGACCCAGGAGACCATCCTCCTGAACCACACCTTCAACGAGACGCAGATTGAGTGGTTCCGCGCTG
GCAGTGCCCTCAACAGAATGAAGGAACTGCAACAGTGAAGGGCAGTGCCCTCCCCGCGCGCTGGCGTCAAGTTCAG
CTCCACGTGTGCCATCAGTGGATCCGATCCGTCCAGCCATGGCTTCTATTCCAAGTAGTGTAACCC

6584/6881
FIGURE 6080

MAPYSLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHYDLLEKNINIVRKRLNRPLTLSEKIVYGHLD
DPASQEIERGKSYLRLRPDRVAMQDATAQMAMLQFISSGLSKVAVPSTIHCDHLIEAQVGGEKDLRRAKDINQEV
YNFLATAGAKYGVGFWKPGSGIIHQIILENYAYPGVLLIGTDSHTPNGGLGGICIGVGGADAVDMAGIPWELK
CPKVIGVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPGVDSISCTGMATICNMGAIEGATTSVFPYN
HRMKKYLKSTGREDIANLADEFKDHLVPDPGCHYDQLIEINLSELKPHINGPFTPDLAHPVAEVGKVAEKEGWPL
DIRVGLIGSCTNSSYEDMGRSAAVAKQALAHGLKCKSQFTITPGSEQIRATIERDGYAQILRDLGGIVLANACGP
CIGQWDRKDIKKGEKNTIVTSYNRNF TGRNDANPETHAFVTSPEIVTALAIAAGTLKFNPETDYLTGTDGKKFRLE
APDADELPKGEFDPGQDTYQHPPKDSSGQHVDVSPTSQRLQLLEPFDKWDGKDLEDLQILIKVKGKCTTDHISAA
GPWLKFRGHLDNISNNLLIGAINIENGKANSVRNAV TQEFGPVPDTARYYKKHGIRWVIGDENYEGSSREHAA
LEPRHLGGRAIITKSFARIHETNLKKQGLLPLTFADPADYNKIHPVDKLTIQGLKDFTPGKPLKCI IKHPNGTQE
TILLNHFTFNETQIEWFRAGSALNRMKELQQ

6585/6881
FIGURE 6081

GCGGGCCGTTATCCATTTGTGTTGTTTCGCCAGCTAGGCCTGGCCTCGTCCCGCTTCGCTCGGTCCGTCTCGCGCG
CCCCATAGCCTTGCTAGAGGGTTAGCGTTAGCCTTAAGTGTGCGAATCCGAGGAGCAGCGACAGACTCGAGACC
ACGCTCCTTCCTCGGGAAGGAGGCGGCACCTCGCGTTTGAAGCCCCGCTGCGTTTGAAGGCCGCTGCGCTTGCG
GCCCCGCTGCGCTTGAGGCCTGTCTGCGTTTGAATCTCATTGGGCGTGATTGAGGAATTTGGGGAGGTTTTTGG
GCGGTATTGAGGACGAGGGGGTCCGTTAGTCAGCATAGAATCCTGGAGCGGGAATCCCTCACCGTCTAAATGGCG
TCGGGGGCGGGACCTCCGGGATCTGGCTTCCGCGGGCCGCCCGGCCCTGAAACGTGAGGGATAGCTGAGATGA
GGCAGCTACTGGGATGGCCCCATGCGCATTTACATGCAGTCCGACTGCCGAGCTTTCGAGGCAGCAGGATTTAC
CGTCCACATTCCTCACTACTAACCAAGCTTTTGAACAGATCTCACAAGAACCTAGAGGTCGGTATTTTTTCGAT
TTAAATTTGCCTGTTACTGACGTTAACGCTTTTCGCTAGTGAGCAGTAGCCAACATGTCAGGGTGGGAGTCATA
TTACAAAACCGAGGGCGATGAAGAAGCAGAGGAAGAACAAGAAGAGAACCTTGAAGCAAGTGGAGACTATAAATA
TTCAGGAAGAGATAGTTTGATTTTTTTGGTTGATGCCTCCAAGGCTATGTTTGAATCTCAGAGTGAAGATGAGTT
GACACCTTTTGACATGAGCATCCAGTGTATCCAAAGTGTGTACATCAGTAAGATCATAAGCAGTGCAGATCT
CTTGGCTGTGGTGTCTATGGTACCGAGAAAGACAAAAATTCAGTGAATTTTAAAAATATTTACGTCTTACAGGA
GCTGGATAATCCAGGTGCAAAACGAATTCTAGAGCTTGACCAGTTTAAAGGGCAGCAGGGACAAAAACGTTTCCA
AGACATGATGGGCCACGGATCTGACTACTCACTCAGTGAAGTGCTGTGGGTCTGTGCCAACCTCTTTAGTGATGT
CCAATTCAAGATGAGTCATAAGAGGATCATGCTGTTCCACCAATGAAGACAACCCCCATGGCAATGACAGTGCCAA
AGCCAGCCGGGCCAGGACCAAGCCGGTGATCTCCGAGATACAGGCATCTTCCTTGACTTGATGCACCTGAAGAA
ACCTGGGGGCTTTGACATATCCTTGTCTACAGAGATATCATCAGCATAGCAGAGGATGAGGACCTCAGGGTTCA
CTTTGAGGAATCCAGCAAGCTAGAAGACCTGTTGCGGAAGGTTGCGGCCAAGGAGACCAGGAAGCGAGCACTCAG
CAGGTTAAAGCTGAAGCTCAACAAAGATATAGTGATCTCTGTGGGCATTTATAATCTGGTCCAGAAGGCTCTCAA
GCCTCCTCCAATAAAGCTCTATCGGGAAAACAAATGAACCAGTGAAAACCAAGACCCGGACCTTTAATACAAGTAC
AGGCGGTTTTGCTTCTGCTAGCGATACCAAGAGGTCTCAGATCTATGGGAGTCGTCAGATTATACTGGAGAAAGA
GGAAACAGAAGAGCTAAAAACGGTTTGATGATCCAGGTTTGATGCTCATGGGTTTCAAGCCGTTGGTACTGCTGAA
GAAACACCATTACCTGAGGCCCTCCCTGTTGCTGTACCCAGAGGAGTCGCTGGTGATTGGGAGCTCAACCCTGTT
CAGTGCTCTGCTCATCAAGTGCTGGAGAAGGAGGTTGCAGCATTGTGCAGATACACACCCCGCAGGAACATCCC
TCCTTATTTTGTGGCTTTGGTGCCACAGGAAGAAGAGTTGGATGACCAGAAAATTCAGGTGACTCCTCCAGGCTT
CCAGCTGGTCTTTTTACCTTTGCTGATGATAAAAGGAAGATGCCCTTTACTGAAAAATCATGGCAACTCCAGA
GCAGGTGGGCAAGATGAAGGCTATCGTTGAGAAGCTTCGCTTCACATACAGAAGTGACAGCTTTGAGAACCCCGT
GCTGCAGCAGCACTTCAGGAACCTGGAGGCCTTGGCCTTGGAATTTGATGGAGCCGGAACAAGCAGTGGACCTGAC
ATTGCCCAAGGTTGAAGCAATGAATAAAAGACTGGGCTCCTTGGTGGATGAGTTTAAAGGAGCTTGTATCCACC
AGATTACAATCCTGAAGGGAAAGTTACCAAGAGAAAACACGATAATGAAGGTTCTGGAAGCAAAAGGCCCAAGGT
GGAGTATTGAGAAGAGGAGCTGAAGACCCACATCAGCAAGGGTACGCTGGGCAAGTTCACTGTGCCCATGCTGAA
AGAGGCCTGCCGGGCTTACGGGCTGAAGAGTGGTCTGAAGAAGCAGGAGCTGCTGGAAGCCCTCACCAAGCACTT
CCAGGACTGACCAAGAGGCCGCGCTCCAGCTGCCCTTCCGAGTGTGGCCAGGCTGCCTGGCCTTGTCTCAGCC
AGTTAAAATGTGTTTCTCCTGAGCTAGGAAGAGTCTACCCGACATAAGTCGAGGGACTTTATGTTTTTGAGGCTT
TCTGTTGCCATGGTGATGGTGTAGCCCTCCCACTTTGCTGTTCTTTACTTTACTGCCTGAATAAAGAGCCCTAAG
TTTGTACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6586/6881
FIGURE 6082

MSGWESYYKTEGDEEAEEEEQEENLEASGDYKYSGRDSLIFLVDASKAMFESQSEDELTPFDMSIQCIQSVYISKI
ISSDRDLLAVVFYGTEDKNSVNFKNIIYVLQELDNPGAKRIEILDQFKGQQGQKRFQDMMGHGSDYSLSEVLWVC
ANLFSDVQFKMSHKRIMLFTNEDNPHGNSAKASRARTKAGDLRDTGIFLDMHLKKPGGFDISLFYRDIISIAE
DEDLRVHFEESKLEDLLRKVRACKETRKALSRILKLNKDIVISVGIYNLVQKALKPPPIKLYRETNEPVKTKT
RTFNTSTGGLLLPSDTKRSQIYGSRQIILEKEETEELKRFDDPGLMLMGFKPLVLLKKHHYLRPSLFVYPEESLV
IGSSTLFSALLIKCLEKEVAALCRYTPRRNIPPYFVALVPQEEELDDQKIQVTPPGFQLVFLPFADDKRKMPFTE
KIMATPEQVGKMKAIIVEKLRFITYRSDSFENPVLQQHFERNLEALALDLMEPEQAVDLTLPKVEAMNKRGLSLVDEF
KELVYPDPDYNPEGKVTKRKHDNEGSGSKRPKVEYSEEELKTHISKGTLGKFTVPMLKEACRAYGLKSLKKQELL
EALTKHFQD

6587/6881
FIGURE 6083

ATCCGTGTCCTTGCGGTGCTGGGCAGCAGACCGTCCAAACCGACACGCGTGGTATCCTCGCGGTGTCCGGCAAGA
GACTACCAAGACAGACGCTATGACTGAGGCTGATGTGAATCCAAAGGCCTATCCCCTTGCCGATGCCCACCTCAC
CAAGAAGCTACTGGACCTCGTTCAGCAGTCATGTAACATAAGCAGCTTCGGAAAGGAGCCATGAGGCCACCAA
AACCTCAACAGGGGCATCTCTGAGTTCATCGTGATGGCTGCAGACGCCGAGCCACTGGAGATCATTCTGCACCT
GCCGCTGCTGTGTGAAGACAAGAATGTGCCCTACGTGTTTGTGCGCTCCAAGCAGGCCCTGGGGAGAGCCTGTGG
GGTCTCCAGGCCTGTCATCGCCTGTTCTGTACCATCAAAGAAGGCTCGCAGCTGAAACAGCAGATCCAATCCAT
TCAGCAGTCCATTGAAAGGCTCTTAGTCTAAACCTGTGGCCTCTGCCACGTGCTCCCTGCCAGCTTCCCCCTGA
GGTTGTGTATCATATTATCTGTGTTAGCATGTAGTATTTTCAGCTACTCTCTATTGTTATAAAATGTAGTACTAA
ATCTGGTTTCTGGATTTTTGTGTTGTTTTGTCTGTTTTACAGGGTTGCTATCCCCCTTCCTTTCCCTCCCTCCC
TCTGCCATCCTTCATCCTTTTATCCTCCCTTTTTGGAACAAGTGTTTCAGAGCAGACAGAAGCAGGGTGGTGGCAC
CGTTGAAAGGCAGAAAGAGCCAGGAGAAAGCTGATGGAGCCAGGACAGAGATCTGGTTCAGCTTTTCAGCCACTA
GCTTCCTGTTGTGTGCGGGGTGTGGTGAATTAAACAGCATTCAATTGTGTGTCCCTGTGCCTGGCACACAGAATC
ATTCATACGTGTTCAAGTGATCAAGGGTTTTCAATTGCTCTTGGGGGATTAGGTATCATTTGGGGAGGAAGCATG
TGTTCTGTGAGGTTGTTCCGGCTATGTCCAAGTGTCGTTTACTAATGTACCCCTGCTGTTTGCTTTTGGTAATGTG
ATGTTGATGTTCTCCCCCTACCCACAACCATGCCCTTGAGGGTAGCAGGGCAGCAGCATACCAAAGAGATGTGCT
GCAGGACTCCGGAGGCAGCCTGGGTGGGTGAGCCATGGGGCAGTTGACCTGGGTCTTGAAAGAGTCGGGAGTGAC
AAGCTCAGAGAGCATGAACTGATGCTGGCATGAAGGATTCCAGGAAGATCATGGAGACCTGGCTGGTAGCTGTAA
CAGAGATGGTGGAGTCCAAGGAAACAGCCTGTCTCTGGTGAATGGGACTTTCTTTGGTGGACACTTGGCACACAGC
TCTGAGAGCCCTTCCCCTGTGTCCTGCCACCATGTGGGTGAGATGTACTCTCTGTACATGAGGAGAGTGCTAGT
TCATGTGTTCTCCATTCTTGTGAGCATCCTAATAAATCTGTTCCATTTTG

6588/6881
FIGURE 6084

MTEADVNP KAYPLAD AHLT KKL D LVQQSCNYKQLRKGANEATKTLNRGISEFIVMAADAEPLIILHLP L L CED
KNVPYVFVRSKQALGRACGVSRPVIACSVTIKEGSQLKQQIQSIQQS IERLLV

6589/6881

FIGURE 6085A

CCGTCGGTGAGGCGGTGCCGGGCGGGGGTTGTCTGGGTGTCATGGGCGGTGGCGACGGCACCGCCCCGCGTCTCC
CTGAGCGGGACGGCAGGGGGGGCTTCTGCGCTGAGCCGGGCGATGGACGACAGCGGCGAGCTGGGTGGTCTGGAG
ACCATGGAGACCTCACGGAGCTGGGCGACGAGCTGACCCTGGGAGACATCGACGAGATGCTGCAATTTGTCAGT
AATCAAGTGGGAGAGTTCCCTGACTTGTCTTTCAGAACAGCTGTGTAGCTCCTTTCTTGGCAGTGGTGGTAGTGGT
AGCAGCAGCGGCAGCAGTGGCAGCAGCAGCAGCAGCAGCAATGGCAGGGGCGAGCAGCGGAGCTGTGGACCTT
TCAGTGCAACGGTCATTACCCAGGTCACATTACCTTCTTCTCTCCCTCGGCGGCCTCCCCACAGGCTCCAAC
CTGCAAGTCAAGGTTTCTCCACCTCAGTTCCCACCACACCCAGGGCAACTCCTATTCTTCAGCCCCGCCCCAG
CCCCAGCCTCAACCTCAAACCTCAGCTGCAACAACAGACGGTAATGATCACGCCAACATTACGACCACTCCGCGAG
ACGAGGATCATCCAGCAGCCTTTGATATACCAGAATGCAGCTACTAGCTTTCAAGTCCTTCAGCCTCAAGTCCAA
AGCCTGGTGACATCCTCCCAGGTACAGCCGGTCACCATTACGACGAGGTGCAGACAGTACAGGCCAGCGGGTG
CTGACACAAACGGCCAATGGCAGCTGCAGACCTTGCCCCGGCTACGGTGCAGACAGTTGCTGCGCCACAGGTG
CAGCAGGTCCCGGTCTGGTCCAGCCTCAGATCATCAAGACAGATTCCCTTGTTTTGACCACACTGAAGACAGAT
GGCAGCCCTGTTATGGCTGCGGTCCAGAACCCGGCCCTCACCAGCCCTCACCACCCCTATCCAGACGGCTGCCCTT
CAAGTACCAACCTGGTGGGCGAGCAGTGGGACCATTCTGACCACAATGCCTGTAATGATGGGGCAAGAGAAAGTG
CCCATTAAAGCAGGTACCTGGGGGAGTCAAGCAGCTTGAGCCCCCAAAGAAGGAGAAAGGCGGACAACCCATAAT
ATCATTGAGAAACGATATCGCTCCTCCATCAATGACAAAATCATCGAATTGAAAGACCTGGTCATGGGGACAGAC
GCCAAGATGCACAAGTCTGGCGTTCTGAGGAAGGCCATTGATTACATCAAATACTTGACGAGAGTCAATCATATAA
CTGCGCCAGGAGAACATGGTGCTGAAGCTGGCAAATCAAAAGAACAAGCTTCTAAAGGGCATCGACCTAGGCAGT
CTGGTGGACAATGAGGTGGACCTGAAGATCGAGGACTTTAATCAGAATGTCTTCTGATGTCCCCCAGCCTCT
GACTCAGGGTCCCAGGCTGGCTTCTCTCCCTACTCCATTGACTCTGAGCCAGGAAGCCCTCTATTGGATGATGCA
AAGGTCAAAGATGAGCCAGACTCTCCTCCTGTGGCGCTGGGCATGGTAGACCGCTCACGGATTCTTCTGTGTGTC
CTCACCTTCTGTGCCTCTCCTTTAACCCCTGACTTCCCTGTGTCAGTGGGAGGGGCCACGACTCTGACCAG
CACCCACACTCAGGCTCTGGCCGCGAGTGTCTGTGTCATTGAGTCAGGTTCTGGGGGCTGGTTTGACTGGATGATG
CCTACTCTTCTCTTATGGCTGGTAAATGGTGTGATTGTCTGAGCGTCTTTGTGAAGCTGCTGGTTTCATGGGGAG
CCAGTGATCCGGCCACACTCGCGCTCCTCGGTACCTTCTGGAGGCACCGGAAACAGGCAGATCTGGATCTCGCC
AGAGGAGATTTTGAGCTGCTGCCGCCAACCTACAAACCTGCCTGGCAGTTTGGGCCGGGCACTGCCACCTCC
CGCCTGGACCTGGCCTGCAGCCTCTCCTGGAACGTGATCCGCTACAGCCTGCAGAAGCTACGCCTGGTGGCTGG
CTGCTCAAGAAAGTCTTCCAGTGCCGGCGGGGCCACGCCAGCCACTGAGGCAGGCTTTGAAGACGAAGCTAAGACC
AGCGCCCGGGATGCGGCTCTGGCCTATCACCGGCTGCACCAGCTGCACATCACAGGGAAGCTTCTGACAGGATCC
GCCTGTTCCGATGTACACATGGCGTTGTGTGCCGTGAACCTGGCTGAATGTGCAGAGGAGAAGATCCCACCGAGC
ACACTGGTTGAGATCCATCTGACTGCTGCCATGGGGCTCAAGACCCGGTGTGGAGGCAAGCTGGGCTTCTGGCC
AGCTACTTCTCAGCCGAGCCAGAGCCTGTGTGGCCCCGAGCACAGTGTGTTCTGACTCCCTGCGCTGGCTC
TGCCACCCCTGGGCCAGAAGTTTTTCATGGAGCGGAGCTGGTCTGTGAAGTCAGCTGCCAAGGAGAGTCTATAC
TGTGCCCAGAGGAACCCAGCTGACCCCATTCGCGAGGTCCACCAGGCCTTCTGCAAGAACCTGCTGGAGCGAGCT
ATAGAGTCTTGGTGAACCTCAGGCCAAGAAGAAGGCTGGAGACCAGGAAGAAGAGAGCTGTGAATTCTCCAGT
GCTCTGGAGTACTTGAAATTACTTCATTCTTTTGTGGACTCTGTGGGGGTTATGAGCCCCCACTCTCCAGGAGC
TCCGTGCTCAAGTCCGCCCTGGGTCCAGACATCATCTGTGGTGGTGGACGTCTGCAATCACTGTGGCCATCAGC
TGGCTCCAGGGAGACGATGCAGCTGTGCGCTCTCATTTTACCAAAGTGGAACGCATCCCCAAGGCCCTGGAAGTG
ACAGAGAGCCCCCTGGTGAAGGCCATCTTCCATGCCTGCAGAGCCATGCATGCCTCACTCCCTGGGAAAGCAGAT
GGGCGAGCAGAGTTCTTCTGCCATTGCGAGAGGGCCAGTGGCCACCTATGGAGCAGCCTCAACGTCAGTGGGGGC
ACCTCTGACCCTGCCCTCAACCACGTGGTCCAGCTGCTCACCTGTGACCTGCTACTGTGCTACGGACAGCGCTC
TGGCAAAAACAGGCCAGTGCCAGCCAGGCTGTGGGGGAGACCTACCACGCGTCAGGCGCTGAAGTGGCGGGCTTC
CAACGGGACCTGGGCGAGCCTGCGCAGGCTGGCACACAGCTTCCGCCCAGCATACCGCAAGGTGTTCTGTCATGAA
GCCACCGTGCAGCTGATGGCAGGAGGAGCCCCACCCGACCCACCAGCTGCTGGAACACAGCCTGCGGCGGCGC
ACCACGCAGAGCACCAAGCACGGAGAGGTGGATGCCTGGCCCGGCCAGCGAGAGCGGGCCACCGCCATCTGCTG
GCCTGCCGCCACCTGCCCTCTCCTTCTCTCTCTCCCCGGGCCAGCGGGCAGTGTGCTGGCCGAAGCTGCCCGC
ACCCTGGAGAAGGTGGGCGACCGGCGCTCCTGCAACGACTGCCAGCAGATGATTGTTAAGCTGGGTGGTGGCACT
GCCATTGCCGCTCTCTGACCACAGGCTCAGCCACCCCTCCACCTCTCTCTCGATTTCTCTCTCTCCCCCTCAG

6590/6881

FIGURE 6085B

CATCTTCCCGCTGAGAGTGGTGGGGAAGAGCCTTGTCTTCTTAGCTGTCACCTGCCGAGGCTTCTGGGCCACTCA
GGCCAGTGCACCCCTGGGCAGAGCCCCTTAAAGCTGCTGTCACTAGATGCCCATGGTCCAGGGCCTGGTGGGCGT
GAGAGGATAGGTGGCAGGGCAGAACTGGGCAGCCCTGACTTGATAGCAGCAGGGGGAGCTCCCAAGCTGCCAAG
CCCCTGCCTCCAGCCTTCCTGAGTTTCTCTCTCCTGAACCCTACTCTCTCCTTTTTGCTTCCTCAGTTTTTATCA
GGCTTTCTCTGGGGGACAGCAGTCTCTGAGCACCAGGGAGCAGTTGCCCTCAGGCCTGTGCCCAGCATGCCCTCC
CCTTTTTATACGAATGTTTTCTACCAGTGTGCTTGGGTTTGCCATGATGCGAGGCTGAGTTGCTGTAGCGTCTTG
ATTCTCTCCCTGGGTCTGCGTTCCCTCCCTGGGCCTGACTGAGCCTGCTCATTGTTTTCCCTTTATTACACAG
GACAGCCAGGGGAGGAGGGGGGCCAGCCCTGGGAGGCTGGTGGGAGGCAGGGGGCAGGCCTGCGGATGCATGAA
ATAATGTTGGCATTATTTTTTAATTTTTTAAAAATAAATGGTATCTTA

6591/6881
FIGURE 6086

MODSGELGGLETMETLTELGDELTLDGIDIDEMLQFVSNQVGEFPDLFSEQLCSSFPGSGGSGSSSGSSSSSSSN'
GRGSSSGAVDPSVQRSFTQVTLPSFSPSAASPQAPTLQVKVSPTSVPSTTPRATPILQPRPQPQPQPQTQLQQQTV
MITPTFSTTPQTRIIQQPLIYQNAATSFQVLQPQVQSLVTSSQVQPVTIQQQVQTVQAQRVLTQTANGTLQTLAP
ATVQTVAAPQVQQVPVLVQPQIIKTDSLVLTTLTGSPVMAAVQNPALTALTTPIQTAALQVPTLVGSSSGTILT
TMPVMMGQEKVPIKQVPGGVKQLEPPKEGERRTTHNIEKRYRSSINDKIIELKDLVMGTDKMHKSGVLRKAID
YIKYLQQVNHKLQENMVLKLANQKNKLLKGIDLGSLVDNEVDLKIEDFNQNVLLMSPPASDSGSQAGFSPYSID
SEPGSPLLDDAKVKDEPDSPPVVALGMVDRSRILLCVLTFCLCSFNPLTSLQWGGAHDSQHPHSGSGRSVLSFE
SGSGGWFDWMMPTLLLWLNVGVIVLSVFVKLLVHGEPVIRPHSRSSVTFWRHRKQADLDLARGDFAAAAANLQTC
LAVLGRALPTSRLDLACSLSWNVIRYSLQKLRLVRWLLKKVFQCRRAPATEAGFEDEAKTSARDAALAYHRLHQ
LHITGKLPAQSACSDVHMAALCAVNLAECAEEKIPPSTLVEIHLTAAMGLKTRCGGKLGFLASYFLSRAQSLCGPE
HSAVPDSLRLWLCHPLGQKFFMERSWSVKSAAKESLYCAQRNPADPIAQVHQAFCKNLLERAIESLVKPKAKKKAG
DQEEESCEFSSALEYLKLLHSFVDSVGVMSPPLSRSSVLKSALGPDIIICRWWTSAITVAISWLQGDAAVRSHFT
KVERIPKALEVTESPLVKAIFHACRAMHASLPKADGQQSSFCHCERASGHLWSSLNVSGGTSDPALNHVVQLLT
CDLLLSLRTALWQKQASASQAVGETYHASGAELAGFQDRLGSLRRLAHSFRPAYRKVFLHEATVRLMAGGSPTRT
HQLLEHSLRRRTTQSTKHGEVDWPGQREERATAILLACRHLPLSFLSSPGQRAVLLAEAAARTLEKVGDRRSCNDC
QQMIVKLGGGTATAAS

6592/6881
FIGURE 6087A

GATTTCGAGTCAGAAGCGGCGGCAGGTCTGAACGCTTCGGTAGGATAAGTGCGGTGGGAGGGGGCTCTGCGGTTTT
GGGGAGCCCAGGGCGGGAACCCGGACCCGGCTGGAAGTCCGGAGCCTGGCCGCAGCCCCGCCCTCCGCTCTTTC
TTGGTGACCTTAAGCCAGTGGCTGCCTTTTTCTGAGCCCGGGCGGGCCGAAGGCGGCGCTAGGCCCTCGGGAC
TCCAGCACTGCAGAGGGTGTGAGGTCTGACATCCAAGACACGTTGTTTCGTATTTCTGAAGGAAGAACTGAAGC
TCCGGGAAGTGATGGCTGGGGATGGGGCGGGCAACTTGGGGACCGAGTGTACGATCCACGCCTAAGGTTGAGGGC
GGCCGAGCTAGCCAGGCAGCCGTGACCCAGTGCTTTTTAGACGTTTCTTAGCTTCCAGAGCCCAACACATACAG
CTGATACACGCAGACCAGATCTGGTCAGGTCTCGGAAGCTGAGTCCAGAGCGATGCTGCTGAAGACAGTGCTCT
TGCTGGGACATGTGGCCAGGTGCTGATGCTGGACAATGGGCTCCTGCAGACACCACCCATGGGCTGGCTGGCCT
GGGAACGCTTCCGCTGCAACATTAAGTGTGATGAGGACCCAAAGAACTGCATAAGTGAACAGCTCTTCATGGAGA
TGGCTGACCGGATGGCACAGGATGGATGGCGGGACATGGGCTACACATACCTCAACATTGATGACTGCTGGATCG
GTGGTCGCGATGCCAGTGGCCGCTGATGCCGGATCCCAAGCGCTTCCCTCATGGCATTCCCTTTCTGGCTGACT
ACGTTCACTCCCTGGGCTGAAGTTGGGTATCTACGCGGACATGGGCAACTTCACCTGCATGGGTTACCCAGGCA
CCACACTGGACAAGGTGGTCCAGGATGCTCAGACCTTCGCCGAGTGGAAAGGTAGACATGCTCAAGCTGGATGGCT
GCTTCTCCACCCCCGAGGAGCGGGCCAGGGGTACCCCAAGATGGCTGCTGCCCTGAATGCCACAGGCCGCCCA
TCGCTTCTCCTGCAGCTGGCCAGCCTATGAAGGCGGCTCCCCCAAGGGTGAAGTACAGTCTGCTGGCGGACA
TCTGCAACCTCTGGCGTAAGTATGATGACATCCAGGACTCCTGGTGGAGCGTGCTCTCCATCCTGAATTGGTTTCG
TGGAGCACCAGGACATACTGCAGCCAGTGGCGGGCCTGGGCACTGGAATGACCCCTGACATGCTGCTCATTGGGA
ACTTTGGTCTCAGCTTAGAGCAATCCCGGGCCAGATGGCCCTGTGGACGGTGCTGGCAGCCCCCTCTTGATGT
CCACAGACCTGCGTACCATCTCCGCCAGAACATGGACATTCTGCAGAATCCACTCATGATCAAAATCAACCAGG
ATCCCTTAGGCATCCAGGGACGCAGGATTACAAAGGAAAAATCTCTCATCGAAGGTACATGCGGCCTCTGTCCA
ACAAGGCTAGCGCCTTAGTCTTCTCAGCTGCAGGACCGATATGCCTTATCGCTACCACTCCTCCCTTGGCCAGC
TGAAGTTACCGGGTCTGTGATATATGAGGCCAGGACGTCTACTCAGGTGACATCATCAGTGGCCTCCGAGATG
AAACCAACTTCACAGTGATCATCAACCCTTCAGGGGTAGTGTGTTGTTACCTGTATCCCATCAAGAACCTGGAGA
TGTCCAGCAGTGAGGAGCTGGGACATGTGACAGGCTGTGGTGGCACCCTGAGCCTAGACCATGGAGCCTTGGC
ATGCCAGGGCAAGTGGGGAGGTCTCTGCTCCCCAGGCCTGCTCGGTGACTGACCCCATCATACCCAAAGTGCA
ATCTCAGGCCAGGTTCTATGCCCTGTCCAAGCGTAAACCCTCTTGGAACTTCTTTTGGGGCAATTTTCTGTG
GCCTTCTGGCCTCTACTTCCATGTGCGCAGCCCCACAGACGTTGCTGAGCAACTCGCCAGCCTCCTGAGCTCCA
TGCCCATCAGGACTCTAGCCTCTGACCTTGCTGTGACTCTGAAATCAGGATTTGGAAGTTTTGGAATTAGGAGT
AGAGAGATCTGACCTCTTGCCAGGAATGCCATGGATCATGTGATTGGCTTTTCTACCCATAGAGGGCCTTGCA
CCTGATACCACCTGGGAGTGAGGGTCACAAAGGAGACCTTGGCTCCCTCAGGTACCAATAAACCTGTTCTTTAA
TCAAGTAGTTGTAATATGGACCTGGGGTACCTTTAGTTAGGACTCTGGTGGCACTACACGGGGTGCTGGATTCA
AATCTCACCTCTATGGATGATGTCTGGCATCGTCTGGCCCCCTCTTTTCCAAAGTGACCAGAAGATTGTAATCC
TAGAGATGCCAGACTTGCCCTCACACCCAGGAGCTGCCCTGCTGTGCTGGTATGCTGGCAGTGGTGATGGTGAC
AACACAATGAGGCCAAGTAGCAATGCTCCAGGTCTGCAGCTTGTGCTCTGCCAGCAGTGGCCCTGGCCAGC
ACCTCAGCCTGCTCTTCTCTCTGGTGGCTCCACCCCAACCCCTACTTCTTTTCTTTTCTCTCCCAACCTGG
CTGCAAGGAGGTTTATATTCCCCAGATGTGTCCACAAACCTGTCCAGGAGTTGTGTCTTAAATTTGATTTCCTG
TCCCTCTTCTAAGGACAGGGGTAACAGTCAAAGTGAAGGAATGATGGGTTCTTGCCTGTCTTGCTTTGGTCCGT
ATTTCCCAAGCCCTCCTCTTTTAGCCAAGGCTACAGGGCACTTGTCTTCCCTGGTGGCTCTCCCTTTGGAGAGA
GCTAGTGGCAGAGCAACCTAGCTAGGTCTCCTTGGGCTTTGAATGCAGGAGCACCCAGTGCCCCAGGCCTTGCA
CTGTGCTGCCCAAGGAGTATTTTCTGGGTGGATCTCCCATACTCCTCAGGGTTCTGAGGTCTTGTATTTAGGGT
ATGGTGTAAAACTTACATATGCACATTTTGTATCATTTAAGATGATTGAAGCTTTACTGGTTAAGTATAGG
GTCACCAGAGAAAGTTTCTTTCCCAAGTTGATGTCTTGGGCTGTGAGAACTTAGGACAGAAGCCTACCTCAT
CCCAGGCTGCCCTCCGTGCATAGCTCTGCCTTTGGGTCTTGTTCATAGTGTCTTACGGCAAAATGGAATAGT
CTCAGGTGGGAACACCTTCTCTTGTAGCTCCAGGAAGGCTTTGTGGGAAATGAGTTGAGACCATGGACTTGGGA
GTTGGGGGCCAGAGTTGAGCCTGGACTTGACCAATTAATTCCCTTACCTTTCAGCCCAAGATAGCTACATGTCTT
TACTTGCTGTATAAGTTTTCTTTTGTCTGGGGGTGCCTGATTGATCCTATCTCTTACCCTTCATTCTTTCAA
CAACATGCCATCTATCTCCAGGACATTTATTCCCTTCTATTCAAGGCCAGTTAGGAATGCAATTATTTTTTTT
TTTCAGTTAAATACAGACTTGTTTGGACGCAAGGTACCCTTTCTCTTTTAAAACTTTTTATCATGAAAACCTT

6593/6881
FIGURE 6087B

CAAATACAAAAATAAAATGGTAGAGTGAACCTCCATG

6594/6881
FIGURE 6088

GAGAGTGTCTCTGCCTGGTCCCTCTGTGCCTGGTGGGGTGGGGGTGCCAGGTGTGTCCAGAGGAGCCCAGTTGGTAG
TGAGGCAGCCATGGGGCTAGAAGCACTGGTGCCCTGGCCATGATAGTGGCCATCTTCTGTCTCCTGGTGGACCT
GATGCACCCGGCACCAACGCTGGGCTGCACGCTACCCGCCAGGTCCCCTGCCACTGCCCGGGCTGGGCAACCTTGC
TGCATGTGGACTTCCAGAACACACCATACTGCTTCGACCAGTTGCGGGCGCCGCTTCGGGGACGTGTTACAGCCTGC
AGCTGGCCTGGACGCCGCTGGTCTGTCTCAATGGGCTGGCGGCCGTGCGCGAGGCGATGGTGACCCGCGGCGAGG
ACACGGCCGACCGCCCGCTGCGCCCATCTACCAGGTCTGGGCTTCGGGCCGCTTCCCAAGGGGTGATCCTGT
CGCGCTATGGGCGCGCTGGCGCGAGCAGAGGCGCTTCTCCGTGTCCACCTTGCGCAACTTGGGCTGGGCAAGA
AGTCGCTGGAGCAGTGGGTGACCGAGGAGGCGCCTGCCTTTGTGCCGCTTCGCGGACCAAGCCGACGCCCCCT
TTCGCCCCAACGGCCTCTTGGACAAAGCCGTGAGCAACGTGATCGCCTCCCTCACCTGCGGGCGCCGCTTCGAGT
ACGACGACCTCGCTTCCCTCAGGCTGCTGGACCTAGCTCAGGAGGGACTGAAGGAGGAGTCGGGCTTCCTGCGCG
AGGTGCTGAATGCTGTCCCGTCTCCCGCACATCCCAGCGCTGGCTGGCAAGGTCCTACGCTTCCAAAAGGCTT
TCCTGACCCAGCTGGATGAGCTGCTAACTGAGCACAGGATGACCTGGGACCCAGCCAGCCACCCCGAGACCTGA
CTGAGGCCCTTCTGGCAAAGAAGGAGAAGGCCAAGGGGAGCCCTGAGAGCAGCTTCAATGATGAGAACCTGCGCA
TAGTGGTGGGTAACCTGTTCTTGGCGGGATGGTGACCACCTCGACCACGCTGGCCTGGGGCCTCCTGCTCATGA
TCCTACACCTGGATGTGCAGCTCCGTGTCCAACAGGAGATCGACGACGTGATAGGGCAGGTGCGGCGACCAGAGA
TGGGTGACCAGGCTCACATGCCCTGCACCACTGCCGTGATTACGAGGTGCAGCGCTTTGGGGACATCATCCCC
TGAGTGTGACCCATATGACATCCCGTGACATCGAAGTACAGGGCTTCGCGATCCCTAAGGGAACGACACTCATCA
CCAACCTGTCATCGGTGCTGAAGGATGAGGCCGTCTGGAAGAAGCCCTTCGCTTCCACCCCGAACACTTCCTGG
ATGCCCAGGGCCACTTTGTGAAGCCGGAGGCCTTCCTGCCTTTCTCAGCAGGCCGCCGTGCATGCCTCGGGGAGC
CCCTGGCCCGCATGGAGCTCTTCTCTTCTTACCTCCCTGCTGCAGCACTTCAGCTTCTCCGTGGCCGCCGGAC
AGCCCCGGCCCAGCCACTCTCGTGTCTGTCAGCTTTCTGGTGACCCCATCCCCCTACGAGCTTTGTGCTGTGCCCC
GCTAGAATGGGGTACCTAGTCCCCAGCCTGCTCCCTAGCCAGAGGCTCTAATGTACAATAAAGCAATGTGGTAGT
TCCAACTTGGGTCCCCTGCTCACGCCCTCGTTGGGATCATCCTCCTCAGGGCAACCCACCCCTGCCTCATTCCT
GCTTACCCACCCGCTGGCCGCATTTGAGACGGGTACGTTGAGGCTGAGCAGATGTGAGTTACCCTTGCCCATAA
TCCCATGTCCCCCACTGACCCAACTCTGACTGCCCAGATTGGTGACAAGGACTACATTGTCCTGGCATGTGGGGA
AGGGGCCAGAATGGGCTGACTAGAGGTGTGAGTCAGCCCTGGATGTGGTGGAGAGGGCAGGACTCAGCCTGGAGG
CCCATATTTAGGCCTAACTCAGCCACCCACATCAGGGACAGCAGTCTGCCAGCACCATCACAACAGTCACC
TCCCTTCATATATGACACCCCAAAATGGAAGACAAATCATGTGAGGGAGCTATATGCCAGGGCTACCTCCCAGGG
CTCAGTCGGCAGGTGCCAGAACATTCCCTGGGAAGGCCCCAGGAAAACCCAGGACCGAGCCACCGCCCTCAGCCT
GTCACCTTGTGTCCAAAATTGGTGGGTCTTGGTCTCACTGACTTCAAGAATGAAGCCGTGGACCTCACGGTGA
GTGTTACAGTTCTT

6595/6881
FIGURE 6089

ACACCATCCTCTTAGTTGCTCAGACTGAAAACCTAGCAGCCATCCTGGATTTCTCTCACACTGCCTATTCAACGT
GTGAATGCATGAGTGGAAGCTGAGTTCGCACTCGTGACTGGCCGGGTCAACTCTGACATTTCGCTCCCCTTTT
GCGCGCTGATTTATCTCTGAGCGGATGAAGGTTGGGCCATGGCGGGCGGGGCCGGGGAGGCGGGCTTGGAGTGAG
GGGGCGGGGCGAGGCGCCACGAAAACGCGCTCGCGCCGGCGCCGAACCGCAACTCCCGGCGGGCCCCGCGCTCCCG
GGTGGCAAGATGGTGGCGCGCAGGAGGAAGTGCGCCGCGCGGGACCCGGAGGACCGTATCCCCAGCCCACTGGGC
TACGCAGCTATTCCAATCAAGTTCTCTGAAAAGCAACAGGCTTCTCACTACCTCTATGTGAGAGCACACGGCGTT
CGACAAGGCACCAAGTCCACCTGGCCTCAGAAGAGGACTCTTTTTGTCTCAATGTGCCCCATACTGCACAGAG
GAGAGCCTGTCCCGCCTCCTGTCCACCTGTGGCCTCGTCCAGTCTGTAGAGTTGCAGGAGAAGCCGGACCTGGCT
GAGAGCCCAAGGAGTCAAGGTGCAAGTTTTTTCATCCAAGCCAGTTCCGGGTTTCCAGGTAGCCTATGTGGTG
TTCCAGAAGCCAAGTGGGGTGTGAGCGGCCTTGGCCCTGAAGGGCCCCCTGCTGGTGTCCACAGAGAGCCACCCT
GTGAAGAGTGGCATTCACAAGTGGATCAGTGACTACGCAGACTCTGTGCCCGACCCCTGAGGCCCTGAGGGTGGAA
GTGGACACGTTTCATGGAGGCATATGACCAGAAGATCGCTGAGGAAGAAGCTAAGGCCAAGGAGGAGGAGGGGTC
CCTGACGAGGAGGGCTGGGTGAAGGTGACCCGCCGGGGCGGGCGGCCTGTGCTCCCCCGACTGAGGCAGCCAGC
TTGCGGGTGCTGGAGAGGGAGAGACGGAAGCGCAGCCGAAAAGAGCTGCTCAACTTCTACGCCTGGCAGCATCGA
GAGAGCAAGATGGAGCATCTAGCGCAGCTGCGCAAGAAGTTTCAGGAGGACAAGCAGAGGATCGAGCTGCTGCGG
GCCAGCGCAAATTCGACCGTACTGAGCTGTGAGAGCCGAGTGAATGGCTGGAGGTGCAGGGCCAGGAGGAGG
CGAGGCAGGGCCTGCAGCGGTCTCTGAGAGGCCGAGCTCTGGCCAACGGGGCCCCAGGTGAAGGCCACCGCGTCC
AACAGCCCCATCAGAGTCCACACAGGCCAGGAGGGAAGGACCAGGCCACCCCTCGGGTCTTGTGCTTCAGCAGTC
CTGGGGACCCAGGCGTGCCGAGAGGAGGACTTGTCTTCTGCTTCTTGCCTCCACACCCTCCTCTCCAGGACCC
TGGATGAATCCGTTCTGTGCTTCCTTTTCCCTCAATGCAAAGCCCTTGCTGGCAACGAAAAAGCCTCAAAAGCA
GTGAGAATACAAGAACCTTTTATTTTCCATCCAGTTGGGCAGCAGGGAAAGGCTAGGTGGGCCCAGCCCGCCCTT
CCTTCTCCAGCTGGCTGGAGATTATTAGCCAGGAGACAGCAGCCCTGGAACCCAGACTCTGTCTCCCCCTTGAG
GTCACAGATGTTGAAGTTGGAATCTCGCTCCTTCCCCTGACTACCATCCTAGGCTGGGCCTCAAGACTAGTGAGG
CCTGTCCCCACCATCCCTGGCCTTGTTGTGGGGCTCAGGAACTCAGAGTCCCAGTGTTGAGTCTGGGAGCACTAG
GTCTTCATAGTTCCAGGCCCAGAGCTACAGCTGGGCTGGGAGCGTGTGTGTGCACTGTAAGAAGGAGCTGATGAT
ACTGGCCACGTGCTGGGGTTCGCTCATGTGGACACAGTGATTGCCTGGGACTTCCACAAACTGGAACCGCTCTTT
GAGGGTGGATTTTATTGTGTCTATCATGAACGACAGGGACTCCTTGTGAGAGTAATTCTCTCTTGATCAAAATA
TCCGTGGACTGCTTTGATCAACAGGACATGGGCCTGCAGCTTCTGATGGAATGCGCACACAGCTCCCTGCTGAC
GAAGTCAATGCTGTCTCTGCC

6596/6881
FIGURE 6090A

CGATGAAGTGCAACCTTCACATGAATGGGAATGTTATCACCTCAGACCAGCCCATCCTGCTGTGAGTTCCAAAGG
CGGGGTGCTGGGGAGAGGCAGCTCCGTCCATCTCTTTTGTTCATATGGGTAAACTGCCTGCATCACAGCTCCCC
TTCATCCCCCATTCGGTTTCCCTCTGTTCTAATGGCAGCTGGCCGTTTCATATGCTTAAACTTGACCAAAATGGT
TTGCTTTGTTATTTCCCCAGGGCTTGACCCTATAGGGACTAGCATTATGATCTCGTTCTCAGCTTTCTGATTTAG
AAATATCTGAGTGGAAGTTGGAGGGGGAGGCTGCTTGGGTCTCCTAGCTGTGTGCATCATCCCGGGAACAGAGAA
CTCCACTGCATGATTGGCTCTGATGGAGACAGTGCCAGATGCTACCCCTTATTTTGTTCGCCAGGTGGTTTTT
GTTTGTGTTGTTGTTGTTGTTGTTTTGCTTTTTTTCAGTTATTTTGTAGAGTCTCACTGTGTTGCCAGGTTGGTTT
CAAACCTCCTGGGGTCAAGCAACCCTCTCCCTCAGCCTCCTGAGGACCTGGGACTATAGGCGCACACCATCACGC
CCAGCTGGATTGCGTTTTAAGTACAGTGGGAAGCCATTGAAGGCTTTTGTGTCACACAGCTGAGTATACATGCC
TGGCCCAGGACTGAGGGATGTTTTGAAGCCTGAGATGCATAAAATGTTGAGACTGTGAGGACTTCACCTTCTAGA
TAAGGAAGCAGATACCAGGGAGGAGGTTAGACTTGCCAGGGTGAGTGGGATAGTGTGGGGCAGGGCTGAAATAGA
CTTTGAGATTTAAAAAGACTAGGATTTGAACCTGGGTAAATGAATTATGTGATTTGGATAAGTTCTTAAACTGTG
TTCAAGGAATAAGAAATATTTCTTAGGGTTTTGTAACCTAATAAGTTTGGGAAGTACTGGGCTAAACAGAGTTAC
ATCTGTTTCACTTTGGGCTTCTCAGATTGTGTAATATGCTAATGGATGTTACCATCCAGAAGGAACATGCAGTG
TTTCTTAACTTAAAACCACAATTAGCCAGGTGTGGTGGCATGCACCTATAGTCCCAGTTACTTGGGGGGCCGAG
GTGGGAGGATCGCTTGAGCCTGGAAGATCGAGACTAGTGAGCCATCATCATGCCACTGCACCTTCAGCCTGGGTGA
CAGAGTGAGATTCTGTCTCAAAAAAACCCACAAAACCTAGAACATACAGCACTGCCTGCGTCTCCATTTTCTG
ATCAGTAAATAAGAAAAACACAGCCTGGGCCACATAGCAAGACCTGGTCTCTACAAAAATTTTAAAAATGAGCC
AGGCATGGTGGTACACGCCTGTAGTCTAGCTCCTTAGGAGGCTGTGGCAGGAGAACTGCTTGAGCCTAGGAGAT
GGAGGCTGATGTGAGCTGTGATTGAGTTTGCTGCGAGGTGGAATGAGATGAAGGGGTATGGAAAGTGTACACCC
AGTGCCTAGCTCATGACAGATGCCAGTAAATGGTGGGTCCCCTCCCCTCTAAGGAAAACTGACAAGAATTTT
TGACTCTTCTCTGCTCTCCACAGGCGGCTGAGTGACAGCCCATCAATGAAAAAGGAGAGCGAGCTGCCTCGCAGG
GTGAACTCTGCCTCCTCCTCAACCCCCCTGCCGAAGTGGACCCTGACACCATCCTGAAGGCACTCTTCAAGTCC
TCAGGGGCTCTGTGACCACGCAGCCACAGAATTCAAAATCAAGCTTTGAGCAGGGGAGTGAGGCAGCCAGAAG
TGGGGGCAGAGGAGGGTGGCTCTGTTTCCCCAAGGCAAAGCTTATGACCAATGGGCCATCGGACTGGAGACCCCT
GATTGTGGGAAGGGTTGCCAGGGATAAAGAGCTTCCTCACTGGATGGGACCCGCCTTTCTGTGTTGTGTTCTGCC
CTGTGCTCTTCTCTCTACGTTAACGTTTCTGTAGTATGTTTCTTCACTCATCGCCAAGGTAGGCTTGTGTTTT
TCAGTGTGTGCTCCCCGAGCCTCAGCCCCAAGCTGATTTCTTATCTGAAATGGTACACTGAATTTCTCTGGGTG
GCTTTCTTGTGGCCCCATGGGATGCAGCGTGGGGGCTGTCTGAAGGACCCTGCTTTTTTCCAGGGGCCGAGGGCT
GCCTTTTCTTTGTGTGTATTAAGCTTTTCAAACAATGGAGGGGATGGAGAGCCCTGGTGTCTGACGGGAGCCAG
GTGCGCCTGAGAGCTGTGCCGCTCCTCTGTCTTGTGAGTGGAGGTGCCCTGGGTGGGAGCAGGTCTCAGGCCTCT
TGTCCTCTCCCCAGTGGCTCCAGGCCTCACTAGTGGCAAGGGCAGGATGAGGCTGCACCGCTGGGAAGAGTCTAT
CTAAGCTCTTGGCTTGGAGTCCCGTGTCTGCTCTCCACCCAGAGGAAGTTCTCCAGAGTTACCTTTCCCTTTTCT
TGAGTTGTGCTGAATGCCCCACCCAGCTCTCTTTCCCTTCTGGGTGTCTTTGCTGGGAGGGGGCTGTGTTGTGA
GCCCTCCCGTTTCTACCTCGCCTGGCACTTAACCACACCCTGGTTTTTGTGTAGCCGCCAGCTCTCTTCTGGTTG
GGCCTTTGAAGGCTCAGCCTCCCATTTGTGCAGTGCTTGGGTTTGGAGCTTATTTGAATGGAAGAGGTCAGTTTG
TTCTTGGCTCTCCATTTCTGGCCTCAGTTGTCTACAGGACAGTGGTCAGGGATGCCTGGAGGCATATATCCAGCT
GCCACCAAGGGGCACTGTTTGTTCCTACTTATGTGAGTGACCCCATCCATCCATGACCAGAGGATTATTTCTCTG
CCTTGGCAGAGGAGGAGGAGTCAAGGGAGCAGGGCAGCTCTACCAGGCAAGGTGTTTCCCCAGCATAGGCGCAGA
CAGTTGGGACGAACTTCAGAGCCCAGGCAGTCCCTGAATGACCAGGCCAGTGTTGTCACTGAGTGGTCCCCTGC
TGGTTGGGAGTGAAGAGAATCCAGGCTGGCAGAGCTGGAGCCAGTTGGGGAGCACGGTTCTGGGAGCTCTGCAAA
ATCAGTAGCAAGTGCTGGAAAAGGCACATGCCGAAGATACTCAAGAGCTCCCAAGATTTGCTTGAGGCTAGCCCA
GTGAAAAAACAGAGACTCATGTTCCAGGGGTGAGTCTGTGAGGCAGGAAGGACCCAGGATTTGAACCCAGCT
TCAGTGTGCAGGCTCTGAGGCTGCCAGGACGGGAAAGTCCAAGGAAGGGCCTGGTGGTGTCTCACTTGCAGTT
CTTTAAAGAATGCTGCTTTTTTATCTCCTAACCTTTTCAAGTGGGTGCAGACTTCTCGTTAGCAGCTGGAAGACA
TTCTTCCACACTTTTCCCTTCTTGGCCCCAAGAGAGCATCCAGAAGGCAGTAGGACCTGGTTTTTTCAGGTACTGG
GAGCCGGGGGCTCACTGCTTGCAGTGTGCTTAGGGTAGGGATGGTAAATATCCTCCCTGCATGGCTTTATCCTCC
CTCTCATCCCAAAGCAGGTATCTTCTGGTTGTACAGAGTTTCATTGAGTCCAGCTGCAGCCACGTGGCCATCTG

6597/6881
FIGURE 6090B

GAGCTGGTGCTATAGGTGACCATCTGGTACATTGAGGGGACCTGTTTGCCTCCTCCACTCTATAAGCAGTCATCT
TGGGAGACCGGGAGGAGAAGGTGGTGGGCTAGTCCTGTGTCTCCTCCACTTCCCATGCCTCTATGTTACCCATC
TGTGTCTCCTGTGCAGAAGGAGAGGAAGGGGCATTAAGAGATGAAGGGTGATTATGTATTACTTATCCATTTCTG
AATAAACATTTGTTATTCCCTACCTTTGAGTTATCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAGACAAAGTCTCAC
TCTGTTGCCAAGGCTGGAGTGCAGTGGCACTATCTCAGCTCACTGCAACCTCCGCAGCCAGACTCAAGTAATCCT
CCCACCTCAGCCTCCCAATTAGCTGGGACTGCAGGCGTGCATCACCATGTCTGGCTAATTTTTGTAGAGATGAGG
TTTACCATGTTGCACAAGCTGGTCTTGAAATCCTGACCTCAGGTGGTCTGCCTGCCTCGGCCTCCCAAAGTTGG
AATTAACAGGCGTGAGCCACCACGCCCAGCCAAGGGTTTTAATCTTGCAGGGATTTCAACATTTGGGGTGGAACCT
TAATTATTTAAAAAATAGAGACAGATTCTTGCTATGATACCCAGGATGGTCTTGAACCTCTGGGCACAAGTGATC
CTCCTGCTTCAGCCTCTCAAAGTGTGGAGTTACAGGCATGAGCCACTGCTCCCCACCAGGGATGCAAATTACTT
GATACTCCTCTCCAGAAGGTGGGGTCTGTGCCCCCTCTGAACCCAAGTGTGCTCTGTTACTACTTTGACCAGAT
GTGACTCTGCCATTTCTGTGCCTAGGCTTTTAAAGATGGTCACTTCTCCATTTCTGTGCCTGGAACATTCTCTG
GGAGCCTTGACACCACATTTGAAGTTGCCTATTGGGGCCAGCATGGTGGCTCACGCCTGTAATCCCAGCACTTCA
GAAGGCCGAGGCAGGCAGATCGCATGAAATCAGGAGTTTGAGACCAGCCTAACCAACGTGGTAAAACCCTGTCTC
TACTAAAAAATTACAAAAATTAGAGGGGCGCGGTGGTGGGCGCTTGTAATCCCAGCTATTGAGGAGGCTGAGGCAG
GAGAATCACTTGAACCCGGGAGGCGGAGTTTGAGTGAGGTGAAATCACGCCACTGCACTCCAGCCTGTGCAACA
GAGCGAGGCTCTGTCTCAAAGAAAAAATAGTTGACTGTGCGTTTGGCATGGTGGCTCATGCCTCTTGTCCCA
GCATTTGGGATGCTGAGGCAGGAAGATTACTGGAGCTCAGGAGTTTCGAGACCAGCTTGGGCAATATAGTGAAGC
CCTATCTTTACAAAAACGAAAAATTAGCTCAGCTACTCAGGAGCCTGAAATGGAGGATCATTTGTGCCCAGGAG
GCAGAGGTGCGAGTGAGCTGTGATCATGCCACTATACTCCATCCTGGGCAACACAGTGAGACGGCAGAAAAAAA
AAATAGTTGACTATTGAGTCTCATATCTGATTGCCACCTGACATCTCCCCTGAGTGGCCTAATGGGCATCTCAC
CACGGCCACAGAGAACTGATCTACTCGATTTTCCCTAAGCTGGCCCCCTCTCCTGCAGTCTACCCATGTCAGTCA
ATGGCAACACCATCCTCTTAGTTGCTCAGACTGAAAAGCTAGCAGCCATCCTGGATTTCTCTCACACTGCCTATT
CAACGTGTGAATGCATGAGTGGAAAGCTGAGTTTCGCACTCGTGACTGGCCGGGGTCGACTCTGACATTCCTCCC
ACTTTGGCGCGCTGATTTGCCTCTGAGCGGATGAAGTTGAGCCATGGCGGGCGGGGCCGGGGAGGCGGGCTTGG
AGCGAGGGGGCGGGGCAGGCGCCACAAAACGCGCTCGCGCGCGCGGACCCGAGGACGGTATCCCGAGCCCA
CTCCCGGGTGGCAAGATGGTGGCGCGCAGGACGAAGCTCGCGCGCGGGACCCGAGGACGGTATCCCGAGCCCA
CCGTGCTACGCAGGTGAGGGGATCCGGAACGCGAGACCGGGGGCGGCCAGCATCGCCGGGAGGTGTTTGGGGGCT
GGCGGCGGCCGGGGGTCCCCAGGAGCGGCCGC

6598/6881
FIGURE 6091

CGAGAGTTGGTCCGCGGACGCCGGAAGTAGTTTCGTCGCTCCCTAGCGGCCGAAGGGGCGGGCTCGCGGGGTCTCG
ACTGCTTTCGGCTTGCTCGGCGGAGCAAGATGGCGGACATCTCCCTGGACGAACTCATCAGGAAGCGCGGGGCGG
CGGCGAAAGGACGGCTTAATGCCAGACCGGGAGTTGGAGGTGTCCGATCTCGAGTTGGGATCCAGCAAGGCCTTC
TCAGCCAGTCAACACGCACAGCCACCTTCCAGCAGAGATTTGATGCCCCGCGAGAAGATTGGCCTCTCAGATGCCC
GGCTCAAACTGGGAGTCAAGGATGCCCCGGGAGAAGCTTTTGCAGAAAGATGCCCCGATTTTCAATCAAAGGGAAAG
TGCAGGATGCCAGAGAGATGTTGAAGTCTCGCAAGCAGCAGACCACGGTGCCCCAGAAGCCCCGCCAGGTTGCTG
ATGCCCCGGGAGAAGATCAGCTTGAAGAGGAGTTCCCTTGCTGCTTCATAAACCACCCATTGGGACAGTGACCC
CTGCTCTGAAGCTCACCAAACCATCCAGGTTCCACAGCAGAAAGCCATGGCACCACCTTCATCCCCATCCTGCCG
GAATGAGAATCAATGTTGTCAATAACCACCAGGCCAAACAGAATTTATATGACCTGGATGAAGATGATGATGGTA
TAGCTTCCGTTCTTACTAAACAGATGAAGTTTGCAGCCTCAGGCGGCTTTCTCCACCACATGGCTGGGCTAAGCA
GTTCCAAGCTTTCATGTCCAAGGCCCTCCCTCTACCAAAGTGGTTTCAAGATGATGCATACACAGCTCCTGCTC
TCCCTTCTCTATTCGAACAAAAGCCTTGACCAACATGTCCCGGACACTGGTGAACAAGGAAGAACCCCCCAAAG
AGCTGCCAGCTGCTGAGCCTGTTCTCAGCCATTGGAAGGCACCAAGATGACTGTGAATAATCTGCACCCTCGAG
TCACTGAGGAGGACATTGTTGAGCTTTTCTGTGTGTGTGGGGCCCTCAAGCGAGCTCGACTGGTCCATCCTGGGG
TAGCGGAGGTGGTGTGTTGTGAAAAGGACGATGCCATCACCGCATATAAGAAGTACAACAACCGGTGTCTGGACG
GGCAGCCGATGAAGTGCAACCTTCACATGAATGGGAATGTTATCACCTCAGACCAGCCCATCTGTGCGGCTGA
GTGACAGCCCATCAATGAAAAAGGAGAGCGAGCTGCCTCGCAGGGTGAAGTCTGCCTCCTCCTCAACCCCCCTG
CCGAAGTGGACCTGACACCATCCTGAAGGCACCTCTCAAGTCTCAGGGGCCCTCTGTGACCACGCAGCCACAG
AATTCAAAATCAAGCTTTGAGCAGGGGAGTGAGGCAGCCAGAAGTGGGGGCAGAGGAGGGTGGCTCTGTTTCCCC
AAGGCAAAGCTTATGACCAATGGGCCATCGGACTGGAGACCCCTGATTGTGGGAAGGGTTGCCAGGGATAAAGAG
CTTCTCACTGGATGGGACCCGCCTTTCTGTGTTGTGTTCTGCCCTGTGCTCTTCTCTACGTTAACGTTTCCT
GTAGTATGTTTCTTCTCATCTCATCGCCAAGGTAGGCTTGTGTTTTTTCAGTGTGTGCTCCCCGAGCCTCAGCCCCA
AGCTGATTTCTTATCTGAAATGGTACACTGAATTTCTTGGGTGGCTTTCTTGTGGCCCCATGGGATGCAGCGTG
GGGGCTGTCTGAAGGACCCTGCTTTTTCCAGGGGCCGAGGGGCTGCCTTTCTTTGTGTGTATTAAGCTTTTCAA
ACAATGGAGGGGATGGAGAGCCCTGGTGTCTGACGGGAGCCAGGTCGGCCTGAGAGCTGTGCCGCTCCTCTGTC
TTGTCACTGGAGGTGCCTGGGTGGGGAGCAGGTCTCAGGCCTCTTGTCTCTCCCCAGTGGCTCCAGGCCTCACT
AGTGGCAAGGGCAGGATGAGGCTGCACCGCTGGGAAGAGTCTATCTAAGCTCTTGGCTTGGAGTCCCGTGTCTGTC
TCCACCCAGAGGAAGTTCTCCAGAGTTACCTTTCCCTTTTCTTGAAGTGTGCTGAATGCCCCACCCAGCTCT
CTTTCCCTTCTGGGTGTCTTTGTGTAGCCGCCAGCTCTCTTCTGGTTGGGCCTTTGAAAGGCTCAGCCTCCCATTTGTC
AGTGCTTGGGTTTGGAGCTTATTTGAATGGAAGAGGTCAAGTTTGTCTGCTTCCATTTCTGGCCTCAGTTGT
CTACAGGACAGTGGTCAGGGATGCCTGGAGGCATATATCCAGCTGCCACCAAGGGGCACTGTTTGTTCCTCACTTA
TGTGAGTGACCCCATCCATCCATGACCAGAGGATTATTTTCTGCTTGGCAGAGGAGGAGTCAAGGGAGCA
GGGCAGCTCTACCAGGCAAGGTGTTTCCCAGCATAGGCGCAGACAGTTGGGACGAAACTTCAGAGCCCAGGCAG
TCCCTGAATGACCAGGCCAGTGTGTCACTGAGTGGTCCCCTGCTGGTTGGGAGTGAAGAGAATCCAGGCTGGCA
GAGCTGGAGCCAGTTGGGGAGCACGGTCTGGGAGCTCTGCAAAATCAGTAGCAAGTGCTGGAAAAGGCACATGC
CGAAGATACTCAAGAGCTCCCAAGATTTGCTTGAGGCTAGCCAGTGAAAAAAACCAGAGACTCATGTTTCCAGG
GGTCAGTCTGTGAGGCAGGAAGGACCCAGGATTTGAACCCAGCTTCAGTGTGCAGGCTCTGAGGCTGCCAGGAC
GGGAAAGTCCAAGGAAGGGGCTGGTGGTGTCTCACTTGCAGTTCTTTAAAGAATGCTGCTTTTATTCTCCTAA
CCCTTTCAAGTGGGTGCAGACTTCTCGTTAGCAGCTGGAAGACATTCCTCCCACACTTTTCCCTTCTGGCCCAA
GAGAGCATCCAGAAGGCAGTAGGACCTGGTTTTTTCAGGTACTGGGAGCCGGGGGCTCACTGCTTGCAGTGTGCTT
AGGGTAGGGATGGTAAATATCCTCCCTGCATGGCTTTATCCTCCCTCTCATCCCAAAGCAGGTATCTTCTGGTTG
TCACAGAGTTTCATTGAGTCCAGCTGCAGCCACGTGGCCATCTGGAGCTGGTGTATAGGTGACCATCTGGTACA
TTGAGGGGACCTGTTTGCCTCCTCCACTCTATAAGCAGTCATCTTGGGAGACCGGGAGGAGAAGGTGGTGGGCTA
GTCCTGTGCTCCTCCACTTCCCATGCCCTCTATGTTACCCATCTGTGTCTCCTGTGCAGAAGGAGAGGAAGGGG
CATTAAGAGATGAAGGGTGATTATGTATTACTTATCCATTTCTGAATAAACATTTGTTATTCT

6599/6881
FIGURE 6092

MADISLDELIRKRGAAAKGRLNARPGVGGVRSRVGIQQGLLSQSTRTATFQQRFDARQKIGLSDARLKLGVKDAR
EKLLQKDARFRIKGVQDAREMLNSRKQOTTVPQKPRQVADAREKISLKRSSPAAFINPPIGTVTPALKLTKTIQ
VPQQKAMAPLHHPAGMRINVVNNHQAKONLYDLDEDDDDGIASVPTKQMKFAASGGFLHHMAGLSSSKLSMSKAL
PLTKVVQNDAYTAPALPSSIRTKALTNMSRTLNVNKEEPPKELPAAEPVLSPLEGTKMTVNNLHPRVTEEDIVELEF
CVCGALKRARLVHPGVAEVVVFVKKDDAITAYKKYNNRCLDGQPMKCNLHMNGNVITSDQPILLRLSDSPSMKKES
ELPRRVNSASSSNPPAEVDPDTILKALFKSSGASVTTQPTFEFKIKL

6600/6881
FIGURE 6093

CCATATGGTGCTCTTCCCAGTCTGGTTCCTGTACAGTCTGCTCATGAAGCTGTTCCAGCGCTCCACGCCAGCCAT
CACCCCTCGAGAGCCCCGGGTTTCAGCCTGGCCTGCCCGTGCCCTGGTGAATCACCTGGCTGAGCAGTTCCCCTGGAG
CCCCTTCGGGAGCAGGGCTGTGTCCCAGATGGGCCACGGCTGAGCCTTCAGAGTACGTCCTGCCTGGCACTTACT
GGTCCTTACCAGAGACGCCCAGCCCCATCCCTGTCCTCATGACCCCTCGTCCACCCCCACACACACTATAAGGC
TGAGGGCTGCCAGCAGCCCCGTCTGCCACCATTCCCGGCCGTGGACCATAGTCGGGATGTCAGCAGACACACAT
GGGCAGCCCCAAAGCTGCAGGTGCCAGGGCCACCCAGCCTCGCCTGTCACCCCCACTCCCGCCTCAGGGCCAGG
CCCAGGCCTCACCACCTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGGCACTGCTCCCTACCCC
AGGGCCCTGGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCCATGGGGTCCTGGG
CTGGGGCCACCATCCCTGATGGCAGAACTCCCACAACCACATGTATTTATTCCTCTGTCCTAAACCGTCCCCCTCC
TTCCCTCACCCCCAGCACAGGGGGATTCTGAGCAGTGCCTCTTGTCTGAGGGACATATCAGTGACCTCGACGTTG
CCTTTAGACTACAGTTGTGTTAGCCTCTTGCGTATTGGCTTTTTTCAGAGTCATTTATGAGCAGAAAAAAAAAAG
TAAAACTTTGCTAATATT

6601/6881
FIGURE 6094

CGCGACGGTCTCGGCGGCGGGCGGCGGCGGCGACAGAGCGAGCGGGCGGCGGGGCCACCATGGGGGGCCAGCTCAG
CACGTTGGGGCCATATGGTGCTCTTCCCAGTCTGGTTCCCTGTACAGTCTGCTCATGAAGCTGTTCCAGCGCTCCAC
GCCAGCCATCACCTCGAGAGCCCGGACATCAAGTACCCGCTGCGGGCTCATCGACCGGGAGATCATCAGCCATGA
CACCCGGCGCTTCCGCTTTGCCCTGCCGTACCCCGAGCACATCCTGGGCCTCCCTGTCGGCCAGCACATCTACCT
CTCGGCTCGAATTGATGAAAACCTGGTTCGTCCGGCCCTATACACCCATCTCCAGCGATGATGACAAGGGCTTCGT
GGACCTGGTCATCAAGGTTTACTTCAAGGACACCCATCCCAAGTTTCCCGCTGGAGGGAAGATGTCTCAGTACCT
GGAGAGCATGCAGATTGGAGACACCATTGAGTTCCGGGGCCCCAGTGGGCTGCTGGTCTACCAGGGCAAAGGGAA
GTTCCGCATCCGACCTGACAAAAAGTCCAACCCTATCATCAGGACAGTGAAGTCTGTGGGCATGATCGCGGGAGG
GACAGGCATCACCCCGATGCTGCAGGTGATCCGCGCCATCATGAAGGACCCTGATGACCACACTGTGTGCCACCT
GCTCTTTGCCAACCAGACCGAGAAGGACATCCTGCTGCGACCTGAGCTGGAGGAACTCAGGAACAAACATTCTGC
ACGCTTCAAGCTCTGGTACACGCTGGACAGAGCCCTGAAGCCTGGGACTACGGCCAGGGCTTCGTGAATGAGGA
GATGATCCGGGACCACCTTCCACCCCGAGAGGAGGAGCCGCTGGTGTGATGTGTGGCCCCCACCATGATCCA
GTACGCCTGCCTTCCCAACCTGGACCACGTGGGCCACCCACGGAGCGCTGCTTCGTCTTCTGAGGGCCGGGCAC
GGTCACACGGCCACCCGCCCCGCGCACCCACGCCCTGTTACGCTCACCCAGTCACCTCCCCACATCGCACACT
GGGGCCCCGGGTTAGCCTGGCCTGCCCGTGCCCTGGTGAATCACCTGGCTGAGCAGTTCCCCTGGAGCCCCCTC
GGGAGCAGGGCTGTGTCCCAGATGGGCCACGGCTGAGCCTCAGAGTACGTCCTGCCTGGCACTTACTGGTCCTT
ACCAGAGACGCCCAGCCCCATCCCTGTCCCTCATGACCCCTCGTCCACCCCCACACACACTATAAGGCTGAGGGC
TGCCAGCAGCCCCGTCTGCCACCATTCCCGGCCGTGGACCATAGTCGGGATGTCAGCAGACACACATGGGCAGC
CCAAAGCTGCAGGTGCCAGGGCCCCACCCAGCCTCGCCTGTCACCCCACTCCCGCCTCAGGGCCAGGCCAGGC
CTCACCACTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGGCACTGCTCCCTACCCAGGGCCC
TGGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCCATGGGGCCCTCCAGAACCT
CAGCATTTCTTCCAGCCCATCCAAACACTGAGGCAGCCTTGGGGAACCCGAGCTGGGGGGTTGGCAGCCCACT
GCACCGCCTCAGGGTTTTGGGGTCTGGGCTGGGGCCACCATCCCTGATGGCAGAACTCCACAAACCACATGTAT
TTATTCTCTGTCCTAAACCGTCCCCTCCTTCCCTCACCCCGAGCACAGGGGGATTCTGAGCAGTGCCCTCTGTC
TGAGGGACATATCAGTGACCTCGACGTTGCCCTTAGACTACAGTTGTGTTAGCCTCTTGCGTATTGGCTTTTTCA
GAGTCATTTATGAGCAGAAAAAAGTAAACTTTGCTAATATT

6602/6881
FIGURE 6095

AGCGGCCTGGCTAACTCCTGCCAGGCAGTGCCCTTCCCGGAGCGTGCCCTCGCCGCTGGTACGGCTCCTACCTGG
TCTTGGAAGAGCTGGGAGGCTTCACAGAGAAGGCTGTGGTTCCCCTGGGCCTCTACACTGGGCAGCTGGCCCTGA
ACTGGGCATGGCCCCCATCTTCTTTGGTGCCCCGACAAATGGGCTGGGCCTTGGTGGATCTCCTGCTGGTCAGTG
GGGCGGCGGCAGCCACTACCGTGGCCTGGTACCAGGTGAGCCCGCTGGCCGCCCGCCTGCTCTACCCCTACCTGG
CCTGGCTGGCCTTCGCGACCACACTCAACTACTGCGTATGGCGGGACAACCATGGCTGGCATGGGGGACGGCGGC
TGCCAGAGTGAGTGCCCGGCCCCACCAGGACTGCAGCTGCACCAGCAGGTGCCATCACGCTTGTGATGTGGTGGC
CGTCACGCTTTCATGACCACTGGGCCTGCTAGTCTGTCAGGGCCTTGGCCAGGGGTCAGCAGAGCTTCAGAGGT
TGCCCCACCTGAGCCCCACCCGGGAGCAGTGTCCTGTGCTTTCTGCATGCTTAGAGCATGTTCTTGGAACATGG
AATTTTATAAGCTGAATAAAGTTTTTGACTTCCTTT

6603/6881
FIGURE 6096

MAPHLLWCPTNGLGLGGSPAGQWGGGSHYRGLVPGEPA GRPPALPLPGLAGLRDHTQLLRMAGQPWLAWGTAAAR
VSARPTRDCSCTSRCHHACDVVAVTLS

6604/6881
FIGURE 6097

ATGGAGGCCGAGCGGGGTCCCGAGCGCCGGCCTGCGGAGCGTAGCAGCCCCGGGCCAGACGCCGGAGGAGGGCGCG
CAGGCCTTGGCCGAGTTCGCGGCGCTGCACGGCCCGGCGCTGCGCGCTTCGGGGGTCCCCGAACGTTACTGGGGC
CGCCTCCTGCACAAGCTGGAGCACGAGGTTTTTCGACGCTGGGGAAGTGTTGGGATCATGCAAGTGGAGGAGGTA
GAAGAGGAGGAGGACGAGGCAGCCCGGGAGGTGCGGAAGCAGCAGCCCAACCCGGGGAACGAGCTGTGCTACAAG
GTCATCGTGACCAGGGAGAGCGGGCTCCAGGCAGCCACCCCAACAGCATCTTCCTCATCGACCACGCCTGGACG
TGCCGTGTGGAGCACGCGCGCCAGCAGCTGCAGCAGGTGCCGGGCTGCTGCACCGCATGGCCAACCTGATGGGC
ATTGAGTTCCACGGTGAGCTGCCAGTACAGAGGCTGTGGCCCTGGTGCTGGAGGAGATGTGGAAGTTCAACCAG
ACCTACCAGCTGGCCCATGGGACAGCTGAGGAGAAGATGCCGGTGTGGTATATCATGGACGAGTTCGGTTCGCGG
ATCCAGCACGCGGACGTGCCAGCTTCGCCACGGCACCCCTTCTTCTACATGCCGCAGCAGGTGGCCTACACGCTG
CTGTGGCCCCCTGAGGGACCTGGACACTGGCGAGGAGGTGACCCGAGACTTTGCCTACGGAGAGACGGACCCCTG
ATCCGGAAGTGATGCTGCTGCCCTGGGCCCCACCGACATGCTGGACCTCAGCTCTTGACACCCGAGCCGCC
GCCGAGCACTACCAGGCCATTCTGGAGGAAAACAAGGAGAAGCTGCCACTTGACATCAACCCCGTGGTGACCC
CACGGCCACATCTTCAAGGTCTACACGGACGTGCAGCAGGTGGCCAGCAGCCTCACCCACCCGCGCTTACCCTC
ACCCAGAGTGAGGCGGACGCCGACATCCTCTTCAACTTCTCACACTTCAAGGACTACAGGAAACTCAGCCAGGAG
AGGCCAGGCGTGCTGCTGAACAGTTCCCCCTGCGAGAACCTGCTGACTGTCAAGGACTGCCTGGCCTCCATCGCG
CGCCGGGCAGGTGGCCCCGAGGGCCACCCCTGGCTGCCCGAACCTTCAACCTGCGCACTGAGCTGCCCCAGTTT
GTCAGCTACTTCCAGCAGCGGGAAAAGGTGGGGCGAGGACAACCACTGGATCTGCAAGCCCTGGAACCTGGCGCGC
AGCCTGGACACCCACGTACCAAGAGCCTGCACAGCATCATCCGGCACCGAGAGAGCACCCCAAGGTTGTGTCC
AAGTACATCGAAAGTCCCGTGTGTTCCTTCGAGAAGACGTGGGAAAGGTCAAGTTCGACATCCGCTACATCGTG
CTGCTGCGGTGAGTGAGGCCCTACGGTTGTTGCTGTATGATGTGTTCTGGCTGCGGTTCTCAACCGGGCCTT
GCACTCAACGACCTGGATGACTACGAGAAGCACCTTACGGTCATGAACATGACCCGGATGTGGTGCTGAAGCAG
GTGCACTGTGAAGAGTTCATCCCCGAGTTTGAGAAGCAATACCCAGAATTTCCCTGGACGGACGTCCAGGCTGAG
ATCTTCCGGGCCTTACGGAGCTGTTCAGGTGGCCTGTGCCAAGCCACCACCCCTGGGCCTCTGCGACTACCC
TCATCCCGGGCCATGTATGCCGTGACCTCATGCTGAAGTGGGACAACGGCCAGATGGAAGGCGGGTGATGCAG
CCGCAGATCCTGGAGGTGAACCTCAACCCGACTGTGAGCGAGCCTGCAGGTACCACCCACCTTCTTCAACGAC
GTCTTCAGCACCTTGTTCCTGGACCAGCCCGGTGGCTGCCACGTTACCTGCCTTGTCTAGGCACTCGCTGTCCCC
AAAACCTGTGCTTGGGGCAGGATTCCAACCTCAGTTCTCTGAGCTGCTTCTGCAAAGGCCCCCATGTCCCTCCCC
ACACCGGCCCTGGGCATAGCCTCAGCCCCAGGCCTCTGTCTGCCGAGCCATCCTCCCGGCGCCCACTCCGGGA
GCACAGCATCCTCCTCTCACCTGTGGGTGAGAGCAGGACAGTGATGGTGTCCCAGGGCTGAGCACCACCCACG
CCCTGCCCTCACCCCTCACCACCATCTGTGCACTGATGAGTCTCCAGTTTAGCCAAGGGCTTTGTTCTCGGCATG
GAGAATTTGTTCTGGCTGCTGTGTTTCCAGGGGGTGCTGGGGGAAGGGTTCCGTGGAGCGAGACAAGGTGTCCT
CGGGAGCAGGGTTCCACCGGAAGCGTTTGGGAGCCCTGTATCACACGGGGCAGGCGGGTTTCTCTTCCGGGGTC
TCTGCTCTTATGCATCAGGACGACCCCGGGACGGCTGTGGGGCCCCCACTGCACCCACAGGGCTCTATGCGACA
GGGGCCCAGGAACAGCCTGAGGCCACCAACCCAGCAAGCCCGCCTTATACCCATTCCAGCTCACCCAGAACCTTC
ACCAGCAAACCTCCTGCTGAGGTCTTGGCAGGAGGCCACCGTCTTGTTACCGTTTCTTTTTCTGTTTGTGAGGGT
CACAGACCCCAACAGGGAAATCAGTATCTGTCTTCCAGTGGTTGCCCTGCTCGCCGGGCACTCCACGGGGTCCC
GCCCTTGTGTGAGATGGGCCAGGATCCTTCGGCAAGGGGCGCCTGGGGCTGGGGCTGATTGTGGGCGGTGGAGCG
CCAGACAGAAAAGGATTCCAATGAGAACTTCAAGTTAAAGTCAGATGCCACCTACCAGGGTCTACAGTCAAAATG
TTGGCTTTTTCTTATTTTTTAATGTATGGGAGAAAAATGTAAAATTCCAGTTCTTTTCTAATTGTGTTTCTGAAA
TTAGGAGTCAGCTGCCAGCGTTTTTGTGTGGCTGCAGTGTGCTGGGCCAGCTCACGGGCAGTGGGTGGACCTA
ACTGCCCAGGCAGGCGAGAGCTACTTCCAGAGCCTTCCAGTGATGGGAGGGCAGGGCTAGGTGTAGCGGTGTCT
CCTCTTTGAAATTAAGAACTATCTTTCTTGTAGCAAAAGCTGCACCTGATGATGCTGCCTCTCCTCTCTGTGTTGT
CTGGGCCCTTGTTTACAAGCACGCGTTACCCCTTCTGAGGGGAGCCATGCTCTAGCCCTTGAGGGCCTGTTGCA
GGGGCAGGGCGGGCCCGTGCCTTTGGCAGCTCCTGGAGAGCTGTGGACATGCAGTCCCCCTCAGTTTCGTGCTGC
AATAAAGGCCATCTTCTCTTA

6605/6881

FIGURE 6098

MEAERGPERRPAERSSPGQTPEEGAQALAEFAALHGPALRASGVPERYWGRLLHKLEHEVFDAGEVFGIMQVEEV
EEEEDEAAAREVRKQQPNPGNELCYKVIIVTRESGLQAAHPNSIFLIDHAWTCRVEHARQQQLQQVPGLLHRMANLMG
IEFHGELPSTEAVLVLEEMWKFNQTYQLAHGTAEKMPVWYIMDEFGSRIQHADVPSFATAPFFYMPQQVAYTL
LWPLRDLDTGEEVTRDFAYGETDPLIRKCM LLPWAPTDM LLDLSSCTPEPPAEHYQAILEENKEKLPLDINPVVHP
HGHIFKVYTDVQQVASSLTHPRFTLTQSEADADILFNFSHF KDYRKLSQERPGVLLNQFPCENLLTVKDCIASIA
RRAGGPEGPPWLPRTFNLRTELPQFVS YFQQRERWGEDNHWICKPWNLARS LDTHVTKSLHSIIRHRESTPKVVS
KYIESPVLFLREDVGKVKFDIRYIVLLRSVRPLRLFVYDVFWLRF SNRAFALNDLDDYEKHFTVMNYDPD VVLKQ
VHCEEFIPEFEKQYPEFPWTDVQAEIFRAFTELFQVACAKPPPLGLCDYPSSRAMYAVD LMLKWDNGPDGRRVMQ
PQILEVNFNPD CERACRYHPTFFNDVFSTLFLDQPGGCHVTCLV

6606/6881
FIGURE 6099

GCGGGGAATCATGGCCGCCCCAGTGTTCCGCGTCCGGGGGTTTGTGGGAGTTGCCCTTGACCTGCAGCTCCGCCA
CCGCGGACCCGCCTTCTGCCCTCAGCAGCAGACGCTCTGTCCCGCCCGGGCAGCTCTGCGAGGCAGCGGCTGGAG
AGGGAACCATGGGGACTGTGCACGCCCGGAGTTTGGAGCCTCTTCCATCAAGTGGACCTGATTTTGGAGGATTAG
GAGAAGAAGCTGAATTTGTTGAAGTTGAGCCTGAAGCTAAACAGGAAATTCTTGAAAACAAAGATGTGGTTGTTT
AACATGTTTCATTTTGATGGACTTGGAAGGACTAAAGATGATATCATCATTTGTGAAATTGGAGATGTTTTCAAGG
CCAAAAACCTAATTGAGGTAATGCGGAAATCTCATGAAGCCCGTGAAAAATTGCTCCGTCTTGGAATTTTTAGAC
AAGTGGATGTTTTGATTGACACATGTCAAGGTGATGACGCACTTCCAAATGGGTTAGACGTTACCTTTGAAGTAA
CTGAATTGAGGAGATTAACGGGCAGTTATAACACCATGGTTGGAAACAATGAAGGCAGTATGGTACTTGGCCTCA
AGCTTCCTAATCTTCTTGGTCGTGCAGAAAAGGTGACCTTTTCACTTTTCTATGGAACAAAAGAACTTCGTATG
GCCTGTCTTCTTCAAACACGGCCCGGAACTTCGAAAGAAATTTCTCTGTAAACTTATATAAAGTTACTGGAC
AGTTCCCTTGGAGCTCACTGCGGGAGACGGACAGAGGAATGTCAGCTGAGTACAGTTTTCCCATATGGAAGACCA
GCCACACTGTCAAGTGGGAAGGCGTATGGCGAGAACTGGGCTGCCTCTCAAGGACGGCGTCATTTGCTGTTGAA
AAGAAAGCGGACATTCAGTGAATCATCTCTTTCGCACGCCATGGTCATCGATTCTCGGAATTTCTCCATCTTAC
CAAGGAGAGGTGCTTTGCTGAAAGTTAACCAGGAAGTGGCAGGCTACACTGGCGGGGATGTGAGCTTCATCAAAG
AAGATTTTGAACCTTCAGTTGAACAAGCAACTCATATTTGATTGAGTTTTTTTTCAGCGTCTTTCTGGGGCGGAATGT
TGGTACCCATTGGTGATAAGCCGTCAAGCATTGCTGATAGGTTTTTACCTTGGGGGACCCACAAGCATCCGCGGAT
TCAGCATGCACAGCATCGGGCCACAGAGCGAAGGAGACTACCTAGGTGGAGAAGCGTACTGGGCCGGCGGCTGC
ACCTCTACACCCCATACCTTTCCGGCCAGGCCAGGGTGGCTTTGGAGAACTTTTCCGAACACACTTCTTTCTCA
ACGCAGGAAACCTCTGCAACCTCAACTATGGGGAGGGCCCCAAAGCTCATATTCGTAAGCTGGCTGAGTGCATCC
GCTGGTCGTACGGGGCCGGGATTGTCCTCAGGCTTGGCAACATCGCTCGGTTGGAACCTTAATTACTGCGTCCCCA
TGGGAGTACAGACAGGCGACAGGATATGTGATGGCGTCCAGTTTGGAGCTGGGATAAGGTTCTGTAGCCGACAC
CCCTACAGGAGAAGCTCTGGGACTGGGGCAGCAGCAAGGCGCCCATGCCACACACCGTCTCTCGAGGAAACGCGG
TTCAGCGATTCTTTGACTGCGGACCCTGTGGGAAACCCCGTCAATAAATGTTAAAGACACACTC

6607/6881
FIGURE 6100

MGTVHARSLEPLPSSGPDFGGLGEEAEFVEVEPEAKQEILENKDVVVQHVFHDGLGR TKDDIIICEIGDVFKAKN
LIEVMRKSHEAREKLLRLGIFRQVDVLIDTCQGDDALPNGLDVTFEVTELRRLTGSYNTMVGNNEGSMVLGLKLP
NLLGRAEKVTFQFSYGTKETSYGLSFFKPRPGNFERNFSVNLYKVTGQFPWSSLRETD RGMSAEYSFPIWKT SHT
VKWEGVWRELGC LSRTASFVRKESGHSLKSSLSHAMVIDSRNSSILPRRGALLKVNQELAGYTGGDV SF IKEDF
ELQLNKQLIFDSVFSASFWGGMLVPIGDKPSSIADRFYLGGP TSIRGF SMHSIGPQSEGDYLGGEAYWAGGLHLY
TPLPFRPGQGGFGELFRTHFFLNAGNLCNLNYGEGPKAHIRKLAECIRWSYGAGIVLRLGNIARLELNYCVPMGV
QTGDRICDGVQFGAGIRFL

6608/6881
FIGURE 6101

ATGGAGCCGGAGTTCTTGTACGACCTGCTGCAGCTCCCCAAGGGGGTGGAGCCCCAGCGGAGGAGGAGCTCTCA
AAAGGAGGAAAGAAGAAATACCTGCCACCCACTTCCCGGAAGGACCCCAAATTTGAAGAACTGCAGAAGGTGTTG
ATGGAGTGGATCAATGCCACTCTTCTCCCCGAGCACATTGTGGTCCGCAGCCTGGAGGAGGACATGTTTCGACGGG
CTCATCCTACACCACCTATTCCAGAGGCTGGCGGCGCTCAAGCTGGAAGCAGAGGACATCGCCCTGACAGCCACA
AGCCAGAAGCACAAGCTCACAGTGGTGCTGGAGGCCGTGAACCGGAGTCTGCAGCTGGAGGAGTGGCAGGCCAAG
TGGAGCGTGGAGAGCATCTTCAACAAGGACCTGTTGTCTACCCTGCACCTCCTTGTGGCCCTGGCCAAGCGCTTC
CAGCCCGACCTCTCCCTCCCAACCAACGTCCAGGTGGAGGTCATCACTATCGAGAGCACCAAAAGTGGTCTGAAG
TCAGAGAAGTTGGTGGAAACAGCTCACTGAATACAGCACAGACAAGGACGAGCCTCCAAAGGACGTCTTTGATGAA
TTATTTAAGCTGGCTCCGGAGAAAGTGAACGCAGTGAAGAGGCCATCGTGAACTTTGTCAACCAGAAGCTGGAC
CGCCTGGGCCTGTCTGTGCAGAATCTGGACACCCAGTTTGCAGATGGGGTCATCTTACTCTTGCTGATTGGACAA
CTTGAAGGCTTCTTCCTGCACTTAAAGGAATTCTACCTCACTCCCAACTCTCCTGCAGAAATGCTGCACAACGTC
ACCCTGGCGCTGGAGCTGCTGAAGGACGAGGGCCTGCTCAGCTGCCCTGTCAGCCCTGAAGATATCGTGAACAAG
GATGCCAAGAGCACACTGCGGGTGCTCTATGGTCTGTTCTGCAAGCACACGCAGAAGGCACACAGGGACAGGACG
CCCCATGGAGCCCCGAATTGA

6609/6881
FIGURE 6102

MEPEFLYDLLQLPKGVEPPAEEELSKGGKKKYLPPTSRKDPKFEELQKVLMEWINATLLPEHIVVRSLEEDMFDG
LILHHLFORLAALKLEAEDIALTATSQKHKLTVVLEAVNRSIQLEEWQAKWSVESIFNKDLLSTLHLLVALAKRF
QPDLSLPTNVQVEVITIESTKSLKSEKLVEQLTEYSTDKDEPPKDVFEDELFLAPEKVNAVEAIVNFVNQKLD
RLGLSVQNLDTOFADGVILLILLIGQLEGFFLHLKEFYLTNPSPAEMLHNVTLALELLKDEGLLSCPVSPEIDIVNK
DAKSTLRVLYGLFCKHTQKAHRDRTPHGAPN

6610/6881
FIGURE 6103

CTGAGCCTCTCCGTGCAATGATTAACCCGGCGGGGCGGCCGCGGGACCCGAGACGGAGGCGCGGGGCCGGGG
CGGGACCCCGCAGGACCGCTCGGCTTCCTGCTCTCGCCGGAGTTTCCGCGTAGAGGGCGCATCGCCGGCCCCGGGG
CCCTTGGTGCGGCGTGGCGCAGGGCGCGGCGTGGGGCGCGCGTGGGCGCGGCGCAGGCGGCCCGGGTCACCATGA
GGACTCTCCGCAGGTTGAAGTTCATGAGTTGCCCCAGCCTCAGTGACCTGGGCAAGAGAGAGCCGGCCGCCGCCG
CGGACGAGCGGGGCACGCAGCAGCGCCGGGCTGCGCCAACGCCACCTGGAACAGCATCCACAACGGGGTGATCG
CCGTCTTCAGCGCAAGGGGCTGCCCGACCAGGAGCTCTTCAGCCTCAACGAGGGCGTCCGGCAGCTGTTGAAGA
CAGAGCTGGGGTCCTTCTTCACGGAGTACCTGCAGAACAGCTGCTGACAAAAGGCATGGTGATCCTTCGGGACA
AGATTCGCTTCTATGAGGAGCTGCAGAGAGACAAGGCGGCGCGGCTGCTGTGCTGGGTGCAGTGAGGAAGAGGC
CCTCGGTGGTGCCCATGGCTGGCCAGGATCCTGCGCTGAGCACGAGTCACCCGTTCTACGACGTGGCCAGACATG
GCATTCTGCAGGTGGCAGGGGATGACCGCTTTGGAAGACGTGTTGTACGTTACGCTGCTGCCGGATGCCACCTT
CCCACGAGCTGGACCACCAGCGGCTGCTGGAGTATTTGAAGTACACACTGGACCAATACGTTGAGAACGATTATA
CCATCGTCTATTTCCACTACGGGCTGAACAGCCGGAACAAGCCTTCCCTGGGCTGGCTCCAGAGCGCATACAAGG
AGTTGCATAGGAAAGACGGGGATCTCACTATGTGGCCCAGGCTGGTCTCGAACTCCAAGCTCAAGCGATCCTCCC
ACCTCAGCCTCCCAAAGTACTGGGATTACAGGTACAAGAAGAACTTGAAGGCCCTCTACGTGGTGCACCCACCA
GCTTCATCAAGGTCTGTGGAACATCTTGAAGCCCCCTCATCAGTCACAAGTTTGGGAAGAAAGTCATCTATTTCA
ACTACCTGAGTGAGCTCCACGAACACCTTAAATACGACCAGCTGGTCATCCCTCCCGAAGTTTTGCGGTACGATG
AGAAGCTCCAGAGCCTGCACGAGGGCCGGACGCCGCTCCACCAAGACACCACGCGCGGGCCCCCGCTGCCCCA
CACAGCAGTTTGGCGTCAGTCTGCAATACCTCAAAGACAAAAATCAAGGCGAACTCATCCCCCTGTGCTGAGGT
TCACAGTGACGTACCTGAGAGAGAAAAGGCTGCGCACCGAGGGCCTGTTCCGGAGATCCGCCAGCGTGCAGACCG
TCCGCGAGATCCAGAGGCTCTACAACCAAGGGAAGCCCGTGAACTTTGACGACTACGGGGACATTACATCCCTG
CCGTGATCCTGAAGACCTTCCTGCGAGAGCTGCCCCAGCCGCTTCTGACCTTCCAGGCCTACGAGCAGATTCTCG
GGATCACCTGTGTGGAGAGCAGCCTGCGTGTCACTGGCTGCCGCCAGATCTTACGGAGCCTCCCAGAGCACAACT
ACGTGCTCCTCCGCTACCTCATGGGCTTCCTGCATGCGGTGTCCCGGGAGAGCATCTTCAACAAAATGAACAGCT
CTAACCTGGCCTGTGTCTTCGGGCTGAATTTGATCTGGCCATCCAGGGGGTCTCCTCCCTGAGTGCCCTTGTGC
CCCTGAACATGTTCACTGAACTGCTGATCGAGTACTATGAAAAGATCTTCAGCACCCCGGAGGCACCTGGGGAGC
ACGGCCTGGCACCATGGGAACAGGGGAGCAGGGCAGCCCTTTGCAGGAGGCTGTGCCACGGACACAAGCCACGG
GCCTCACCAAGCCTACCTACCTCCGAGTCCCCTGATGGCAGCCAGAAGACGTCTCTAGTGTTGCGAACACTCTG
TATATTTGAGCTACCTCCACACCTGTCTGTGCACTTGTATGTTTTGTAACTTGGCATCTGTAAAAATAACCA
GCCATTAGATGAATTCAGAACCTTCTAATGAAAACCTCATGCCTCTGGTCCTTGGACTCTTGTCCATGGTTCCTG
AGCTGTGGACCGGGATAGAAT

6611/6881
FIGURE 6104

GGCCCAGGCTGAAGCTCAGGGCCCTGTCTGCTCTGTGGACTCAACAGTTTGTGGCAAGACAAGCTCAGAACTGAG
AAGCTGTCACCACAGTTCTGGAGGCTGGGAAGTTCAAGATCAAAGTGCCAGCAGATTAGTGTTCATGTGAGGACG
TGCTTCCTGCTTCATAGATAAGAGCTTGGAGCTCGGCGCACAAACCAGCACCATCTGGTCGCGATGGTGGACACGG
AAAGCCCCTCTGCCCCCTCTCCCCACTCGAGGCCGGCGATCTAGAGAGCCCGTTATCTGAAGAGTTCTCTGCAAG
AAATGGGAAACATCCAAGAGATTTGCAATCCATCGGCGAGGATAGTTCTGGAAGCTTTGGCTTTACGGAATACC
AGTATTTAGGAAGCTGTCTGGCTCAGATGGCTCGGTCATCACGGACACGCTTTCACCAGCTTCGAGCCCCCTCT
CGGTGACTTATCTGTGGTCCCCGGCAGCGTGGACGAGTCTCCAGTGGAGCATTGAACATCGAATGTAGAATCT
GCGGGGACAAGGCCTCAGGCTATCATTACGGAGTCCACGCGTGTGAAGGCTGCAAGGGCTTCTTTGGCGAACGA
TTCGACTCAAGCTGGTGTATGACAAGTGCGACCGCAGCTGCAAGATCCAGAAAAAGAACAGAAACAAATGCCAGT
ATTGTCGATTTACAAGTGCCTTTCTGTCTGGGATGTACACAAACGCGATTCTGTTTTGGACGAATGCCAAGATCTG
AGAAAGCAAACTGAAAGCAGAAATTCTTACCTGTGAACATGACATAGAAGATTCTGAACTGCAGATCTCAAAT
CTCTGGCCAAGAGAATCTACGAGGCCTACTTGAAGAACTTCAACATGAACAAGGTCAAAGCCCGGGTCATCCTCT
CAGGAAAGGCCAGTAACAATCCACCTTTTGTCTATACATGATATGGAGACACTGTGTATGGCTGAGAAGACGCTGG
TGGCCAAGCTGGTGGCCAATGGCATCCAGAACAAGGAGGCGGAGGTCCGCATCTTTCACTGCTGCCAGTGCACGT
CAGTGGAGACCGTCACGGAGCTCACGGAATTCGCCAAGGCCATCCCAGGCTTCGCAAACCTTGGACCTGAACGATC
AAGTGACATTGCTAAAATACGGAGTTTATGAGGCCATATTCGCCATGCTGTCTTCTGTGATGAACAAAGACGGGA
TGCTGGTAGCGTATGGAAATGGGTTTATAACTCGTGAATTCCTAAAAAGCCTAAGGAAACCGTTCTGTGATATCA
TGGAACCCAAGTTTGATTTTGCCATGAAGTTCAATGCACTGGAACCTGGATGACAGTGATATCTCCCTTTTTGTGG
CTGCTATCATTTGCTGTGGAGATCGTCCTGGCCTTCTAAACGTAGGACACATTGAAAAAATGCAGGAGGGTATTG
TACATGTGCTCAGACTCCACCTGCAGAGCAACCACCCGGACGATATCTTTCTCTTCCCAAACTTCTTCAAAAAA
TGGCAGACCTCCGGCAGCTGGTGACGGAGCATGCGCAGCTGGTGCAGATCATCAAGAAGACGGAGTCGGATGCTG
CGCTGCACCCGCTACTGCAGGAGATCTACAGGGACATGTACTGAGTTTCCTTCAGATCAGCCACACCTTTTCCAGG
AGTTCTGAAGCTGACAGCACTACAAAGGAGACGGGGGAGCAGCAGATTTTGCACAAATATCCACCACTTTAACC
TTAGAGCTTGGACAGTCTGAGCTGTAGGTAACCGGCATATTATTCCATATCTTTGTTTTAACCAGTACTTCTAAG
AGCATAGAACTCAAATGCTGGGGGAGGTGGCTAATCTCAGGACTGGGAAG

6612/6881
FIGURE 6105

MVDTESPLCPLSPLEAGDLESPLSEEFLOEMGNIQEISQSIGEDSSGSFGFTEYQYLGSCPGSDGSGVITDTLSPA
SSPSSVTYPVVPGSVDESPSGALNIECRICGDKASGYHYGVHACEGCKGFFRRTIRLKLVDKCDRSCKIQKKNR
NKCQYCRFHKCLSVGMSHNAIRFGRMPRSEKAKLKAIEILTCEHDIEDSETADLKSLAKRIYEAYLKNFNMNKVKA
RVILSGKASNPPFVIHDMETLCMAEKTIVAKLVANGIQNKEAEVRIFHCCQCTSVETVTELTEFAKAIPGFANL
DLNDQVTLLKYGVYEAIFAMLSSVMNKDGMLVAYGNFITREFLKSRLKPFCDIMEPKFDFAMKFNALELDDSDI
SLFVAAIICCGDRPGLLNVGHIEKMQEGIVHVLRLHLQSNHPDDIFLFPKLLQKMADLRQLVTEHAQLVQIIKKT
ESDAALHPLLQEIIYRDMY

6613/6881
FIGURE 6106A

CAACTTCCGGAAGGAGGCGGAAGAGCTTCTCGGCTCTAGGCTCTGGAGTCCCGGGAGCAGTGAGGGGCCACCCGG
GGCACAGGAAAGGGCCGCTAGGGGAGGGCCGGGTGCACTCGGGGTGTCTGGGCCGCGGGTCTGAGGGATGAGGAG
GGGCCATGGCCAGCGACGGGGCCAGGAAGCAATTCTGGAAGCGCAGCAACAGCAAGCTCCCGGGCAGCATCCAGC
ACGTGTATGGTGCCAGCACCCCCCTTTGATCCACTGTTACATGGCACTTTGCTCAGGTCCACGGCCAAGATGC
CGACCACACCAAGTGAAGGCCAAGAGGGTTCAGCACCTTCCAGGAGTTTGAGAGCAATACCAGCGATGCCTGGGACG
CTGGGGAGGACGACGATGAGCTCCTGGCCATGGCGGCGGAGAGCCTGAACTCCGAGGTGGTTCATGGAGACGGCCA
ACCGTGTGCTGCGTAACCACAGCCAGCGGCGAGGGGCGGGCCACGCTGCAGGAGGGGCCAGGGCTTCAGCAGAAGC
CCAGGCCCCGAGGCAGAGCCGCCCTCACCCCCAGCGGCGACCTCCGGCTGGTGAAGTCGGTTCAGTGAGAGCCACA
CGTCTGTCTGTCAGAAAGTGCCAGCGATGCCGCCCCCTCTGCAGAGGTCCCAGTCTCTCCACACTCGGCCACCG
TCACGCTGGGTGGCACATCTGACCCAGCACTCTCAGCAGCTCAGCGCTGAGCGAAAGAGAGGCTCCCGGCTCG
ACAAGTTCAAGCAGCTGCTTGCCGGCCCCAACACGGACCTTGAGGAATTACGGAGGTTGAGCTGGTCCGGAATCC
CTAAGCCAGTGCGTCCAATGACGTGGAAGCTCCTCTCAGGTTACCTTCCCGCCAATGTAGACCGGAGACCAGCCA
CTCTCCAGAGAAAACAAAAGAATATTTTGCATTTATTGAGCACTATTACGATTCTAGGAACGACGAAGTTTACC
AGGACACATACAGGCAGATCCACATAGACATCCCTCGCATGAGCCCTGAAGCGTTGATCCTGCAGCCCCAAGGTGA
CGGAGATTTTTGAAAGGATCTTGTTTCATATGGGCGATCCGCCACCCAGCCAGTGGATACGTTTCAGGGTATAAATG
ATCTCGTCACTCCTTTCTTTGTGGTCTTCATTTGTGAATACATAGAGGCAGAGGAGGTGGACACGGTGGACGTCT
CCGGCGTGCCCGCAGAGGTGCTGTGCAACATCGAGGCCGACACCTACTGGTGCATGAGCAAGCTGCTGGATGGCA
TTCAGGACAACCTACACCTTTGCCAACCTGGGATTCAAATGAAAGTGAAAATGTTAGAAGAACTCGTGAGCCGGA
TTGATGAGCAAGTGACCGGCACCTGGACCAACACGAAGTGAGATACCTGCAGTTTGCCTTCCGCTGGATGAACA
ACCTGCTGATGAGGGAGGTGCCCTGCGTTGTACCATCCGCCTGTGGGACACCTACCAGTCTGAACCGGACGGCT
TTTCTCATTTCCACTTGTACGTGTGCGCTGCTTTTCTCGTGAGATGGAGGAAGGAAATACTAGAAGAAAAAGATT
TTCAAGAGCTGCTGCTCTTCTCCAGAACCTGCCCACAGCCCACTGGGATGATGAGGACATCAGCCTGTTGCTGG
CCGAGGCCTACCGCTCAAGTTTGCTTTTGCCGACGCCCCCAATCACTACAAGAAATGAGCCCAGGCCCCACCCGC
AGCTGGCCTCACTGTCCCGGTGGCGCGCCCCACCTGCCTGGCTGGTGGTAGGCCCTGTGAGCTGGTCCCGGGC
TGCTAAAAGGCCTTGTGAGGTGGCCCCACCCTCCAGGGGAGCTGGTGAAGATGGGCCACAGACCTGGTCTAGGGC
TGACAAAGACAGGGACAGCCTTTGTTTTCTGAGATACCAAAGAGAGCCAGGGGAGGGCCCCGGGTTCCGGCGGCCA
GAGGCAGGTGAGGGGTCCCCTCTCCCTCTCCCTGCAATGTCTTGCCAAATGACTGCCTCGTGTGCCCTTAGTC
CGGGGCAGCCTAGGAGGCCGACCTCTTTGGAGTCTGCTGTCTGGGTGCCAGGGCCGGAACGAGGTAGTGGCCA
TCTCATACCTACTCTGAAATGCAAACTTCTATTCTGTTGAGTGAAAGAATAAAATGTAGACAAAATCTAGACCG
AGACGTTGCGCTGACCCGGGGTCTCTGTGCCGCGAGGTCCCCTCACAGCTGTATTTCACTGCTGCTGGCCCTTTC
CCTCCGTGTGTTTTCTGCTTGTCTGGTTTAAACGTGGCTGGGAAGCTGAAGGCTGGAGTCCAAGCCGTGAGCCC
GCCGAGTGCTGGGAGGCCGTGGGACCAAAGGCTGGGAGCAGAGGGAGGCCTCGCCATCGCCTTACTTTCCACCT
TGAACCTCTTTTACAAGAGAGAAACCCCCACCTCCCTGAGGTCCAGGGCCAAGTGGCCCCGCCACGCAGGTAGGC
GCCGGCCTCAGCCAGAGCCCCTGGAGGCCACCCAGGCTGTCCGGGCCATGTTGGGCTGGCAGACGGGCAGGGGT
CGCGTCCCTGTTCATCAAAGCCCTGAACCACAGTGCTCTTCTCACCGCAGCCTGGAAGCGGAATGAGCTTTTGGAG
ACTTCTGGGACTTGCTGTCTTGTCCAGGTCTGCCAGGTGTAGGGGAGGTGTGACTGGTTCCATCATGGACCGG
TTCTCCATGGACCGGTTTCTCCGTGGACCGGTTCCGCCATGGACCGGTTCCGCCATGGACCACTCCTGCCCTGG
ACCACTCCTGCCCTGGACCGGTTCTGCCGTGGACTGGTTCCCGCCGTGGACCAAGTTCCCGCTGTATACTGGTTCT
GCCCCTGGACTGGTTCCCGCTGTGGACTGGTTCCCTTGGGGCTCTAAGTGCGGAAGGGGCCAGAGCTGGTCCCTGCC
CAGCGCCCTGCTAGGGCTGTGTCTTGGCTCCAGGGGCCCTTGGGACTGGCTTCCAGCGTTCCCTCGGTGTGTCA
CAGGCTGCATGACCCCTGGAATGCGGGCAGGGCCACAGCCACAGTCTGTCTGATCCCTGAGCCCAGGACAGGCTC
ACGTCTCAGCGACCCACTGGTGACTGACTTCCAGACTCTCCTCTGTCCCTCAGGAGCAGCCGTGTCTCTCCC
AGGCCCTAGGACACTGCCAGAGACTGTGGGACATACAGGCATAAGTGATGTGTGTGTTTCTGCTTCTGTTTTAA
AATCCAGGGTCATTACACACAGCATGGAATTAGCACAAAATGCTGTGCAAACGTGAGATGCTCCCAAACAGCA
AAGGGATGGGCTTGCTTTCATATCAGATGCGGGCACGCCTTACCCTGCCTTCCGTGTCCCCACCCAGGGTCAAG
GGTTCTCAGACCAGCCATGCCTCCTCCTCCTGCCGCTCCTTTTCTAGATGGGGAGGGGATTCCGTCAACAAGAA
GAGCCGCCCTCGGCCGTGTGCAGGAAGCCCCATGTGCTTTGCCGAGATCAGCCCTGGGAGGATCCCCTTCTCC
AGCTCAGATCATGCCGTGTGGCCAGAAGGCTGCGGACACAACCTGACCTGCTTCTCGAGGTGGTTGATGTTTTAA

6614/6881
FIGURE 6106B

CAGGAAGCTCCACGGAGTTCAGCCCTGTGTGCATTTCTCATGTATGTAAACGCCAAGACTGAATGTGAGAGGTG
TTGGCCGCGGGCCTTAAGTCTGAGCAGATCCATCTGGAATGTTTCGGGGTGTGCTGTCTGGATGTGGTGCCTAAA
AACACGGAATAAAGATCAGTGAC

6615/6881
FIGURE 6107

MASDGARKQFWKRSNSKLPGSIQHVGGAQHPPFDPLLHGTLRSTAKMPTTPVKAKRVSTFQEFESNTSDAWDAG
EDDDELLAMAAESLNSEVVMETANRVLRNHSQRQGRPTLQEGPGLQQKPRPEAEPPSPPSGDLRLVKSSESHTS
CPAESASDAAPLQRSQSLPHSATVTLGGTSDPSTLSSSALSEREASRLDKFKQLLAGPNTDLEELRRLSWSGIPK
PVRPMTWKLLSGYLPANVDRRPATLQRKQKEYFAFIEHYYSRNDVHQDTYRQIHIDIPRMSPEALILQPKVTE
IFERILFIWAIRHPASGYVQGINDLVTPFFVVFICEYIEAEVDTVDVSGVPAEVLNIEADTYWCMSKLLDGIQ
DNYTFAQPGIQMKVKMLEELVSRIDEQVHRHLDQHEVRYLQFAFRWMNNLLMREVPLRCTIRLWDTYQSEPDGFS
HFHLYVCAAFVLRWRKEILEEKDFQELLFLQNLPTAHWDDDEDISLLLAAYRLKFAFADAPNHYKK

6616/6881
FIGURE 6108A

GTCCGGCGGCGTCGCGGGCGGCGGGCGGCGGGGCCGCGGGAGGGGCGCGGGGCGAGACAAAGCCGCGGTAATGAA
TGGAGCGTCCGCCCGCGCCCGCGTCTCGTCAGCCGGCCGGGAGCCGCCCCAGAGGCCGGGCCGAGGTAATGCAC
AAGGGTCACGTGTATGCTCTCAAGATGATCAGGCAGATCCTGTCTCAGGACCAGAAGCACGTCTCTGCTGCACA
CATTGTTGTCTACACCATGAGTGTITAGTAGCAGGACTCTTGAAAAGCAGTGATCTATGCTGTAAGACCATGAGT
CACAGATTCTTTTTTTCAGTACTATTTATGATTAGCCATATTTCTAGAAACATCCTGAAAGATGGAATTATGACG
AAAAAGTGAAGATAATCTACATTGCGGGGCGACAAATGAGCACTTGATCAGTGTITATGAACCTAAGATACAGC
CGGAGTAGTTATGGTCAGTCATGGAGAATAACTTGAAAACCTGTCCCAAAGAGGACGGTGATTTTCGTTTCTGATA
AAATAAAGTTTAAATAGAGAGGAAGATGATGATGGAATTCCTCCTGATAGTTTGGAAGAATGGACTTTAAAA
GCGAGCAGGAGGACATGAAGCAGACAGACAGCGGTGGGGAGCGAGCGGGCCTCGGTGGGACGGGTTGCAGCTGCA
AGCCCCCGGGGAAGTACTTGTCTGCAGAGAGTGAGGATGACTATGGCGCGCTGTTCTCCAGTACAGCAGACCCC
TATACGACGTGGCCATGGAGGCCGTGACCCAGAGCCTCCTTTCCAGCCGGAACATGAGCTCCAGGAAGAAGTCTC
CAGCCTGGAAGCATTTTTTTATCTCTCCCCGAGACAGCACTAAAGCAATATGCATGTACTGTGTGAAGGAGTTCA
GCAGAGGCCAAAAACGAGAAAGACTTGAGTACCAGTTGTCTCATGAGGCACGTGAGGCGCGCACACCCGACCGTGC
TCATTTCAGGAAAAATGGCAGTGTGTCTGCCGTGTCTCGTTCCCTCTCCCTCACTCCTGCTTCCACCACAGCCTG
CGGACGCGGGTGACCTCAGCACCATCCTCTCACCATCAAACCTTGTCAGAAAAGTGGCGTCTAAGATCCCGTCCC
CCGATCGAATAACAGAGGAGTCTGTGTCTGTAGTTTCTTCTGAAGAAATCTCCTCTGACATGTCCGTTTCGGAGA
AGTGCGGCAGAGAAGAAGCCCTGGTGGGGTGTCTCCCCACCTCCCTGCTCTCCATTACGATGAACCTGCAGAGA
ACTTAGCGGAGAAGAGCCTTCCACTTCCAAAGAGCACCTCTGGGTCCAGGAGAAGGTCCGCTGTCTGGAAGCACT
TCTACCTGTGCGCCACTGGACAACCTCCAAAGCTGTCTGCATTCACTGCATGAACGAGTTACGCCGGGGGAAGAATG
GGAAGGACCTGGGCACGAGCTGCCTCATCAGGCACATGTGGAGGGCACACCGCGCCATCGTGTGTCAGGAGAACG
GGGGCACGGGCATCCCGCCACTGTACTCCACCCCTCCCACTCTGCTGCCTTCCTTGCTGCCGCCGGAGGGGGAGC
TCAGCTCTGTGTCTCTCCAGTAAAGCCGGTCAGAGAGTCCCTTCGGCCTCCTCCTCCCTGACAGGCTGA
CTGAGGACTTGCAGTCTCACTTGAACCCTGGAGATGGGCTGATGGAAGACGTGGCGGCCTTCTCATCTTCCGATG
ACATAGGGGAGGCCTCGGCGTCTCTCCTGAGAAGCAGCAGGCTGATGGGCTGAGTCTTAGATTGTTTGAATCTG
GCGCCATCTTCCAGCAGAAATAAAAAGGTGATGAAAAGACTGAAGTCGGAGGTCTGGCATCACTTCTCCCTGGCCC
CCATGGACAGCCTCAAGGCCGAGTGTGCGTACTGCGGCTGTGCCATCAGCCGGGGGAAGAAGGGTGATGTGGGCA
CCAGCTGCCTGATGAGACATCTTACCGGCGCCATCCAGAAGTTGTGCGGAGCCAGAAGGGCTTCCTGGGTGCAA
GTCTGGCAAACTCTCCGTATGCCACTTTGGCCTCTGCAGAAAGTTCTCTTCCAAATTGACTGACTTGCCAACAG
TGGTCACAAAAACAATCAAGTTATGTTTCTGTTAATAGCAAAAAGACCTCGAAGCTGTGGAATCATTTTTCTA
TTTGCTCCGCAGACTCCACAAAAGTCGTGTGCTTGCACTGTGGCCGGACCATCAGCCGGGGGAAGAAGCCGACTA
ACTTGGGTACCAGCTGTCTTCTGAGACATTTACAGCGGTTCCATAGCAACGTGCTGAAAACCTGAGGTCTCGGAGA
CGGCTCGGCCCTCCTCTCCGGACACCCGGGTGCCGCGGGGACAGAAATTATCAGGCGCTTCTCTTTTGATGACA
CCAATGAGAAGTTTACGATTCTCACCAGTTGCCAAAAAATCACAAGTCTCATAGCTGAAATGATTGCACTTG
ACCTCCAGCCATATTCTTTTGTAGACAACGTTGGCTTTAACAGGCTGCTTGAATACTTGAAACCTCAGTACTCCC
TCCCCGCCCTTCTACTTCTCCAGGACAGCTATCCAGGTATGTATGATAATGTGAAGCAGATAATTATGTCCC
ACCTTAAGGAAGCTGAGAGTGGTGTGATCCACTTCACGTCTGGAATATGGATGAGTAACCAGACCCGTGAGTACC
TGACCCTCACGGCCCACTGGGTTTCTTCGAGTCGCCAGCCCGGCGCGCTGTGACGACCACCACTGCTCGGCGC
TGTTGGACGTGTGCGAGGTGGACTGCGACTACAGTGGAACAGCATTGAGAAGCAGCTGGAGTGCTGGTGGGAAG
CGTGGGTGACCTCCACCGGCCTTCAGGTGGGCATCACCGTCACCGACAACGCCAGCATCGGGAAGACGCTGAACG
AGGGGGAGCACTCGAGCGTGCAGTGCTTCAGCCATACGGTGAACCTGATCGTCAGCGAGGCCATTAAGAGCCAGC
GGATGGTGCAGAACCTGCTGAGCCTCGCCCGGAAGATCTGCGAGCGGTGCACCGGTGCCCCAAGGCGAAGGAGA
AACTGGCCGAGCTGCAGAGGGAGTACGCGCTGCCTCAGCATCACCTCATCCAGGACGTCCCGTCCAAGTGGAGCA
CTTCTTCCACATGCTCGAGCGGCTCATTTAGCAGAAAAGGGCCATTAACGAGATGTCCGTGAGTGTAACCTTC
GAGAGCTGATCAGCTGCGACCACTGGGAGGTGATGAGTCCGTGTGCGGTGCGCTAAAGCCCTTCGAGGCTGCGA
GCCGGGAGATGAGCAGCAGATGTCCACCCTCAGCCAGGTGATCCCATGGTACACATCTCAACAGGAAGGTGG
AGATGCTCTTCGAGGAGACGATGGGCATCGACACCATGCTGCGCTCTCTGAAGGAGGCCATGGTGAGCCGCTGT
CTGCCACCCTCCACGACCCGCGGTACGTCTTCGCCACGCTGCTGGATCCTCGCTACAAGGCCTCCCTGTTTACGG
AGGAGGAGGCGGAGCAGTACAAACAGGATTTAATCAGGGAACCTCGAATCATGAATTCTACCTCAGAGGACGTGG

6617/6881
FIGURE 6108B

CTGCCTCCACAGGTGTGATGCTGGCTCCCCGTCGAAAGACTCTGCCGCAGAGGAGAACCTGTGGTCACTTGTGG
CCAAGGTGAAGAAGAAAGACCCAAGAGAAAAGCTGCCTGAAGCCATGGTGCTTGCCTATCTGGAGGAGGAGGTGC
TTGAACACAGCTGTGACCCGCTCACCTACTGGAACCTGAAGAAGGCGTCCTGGCCGGGGCTGTCCGCGCTGGCCG
TCAGATTTTGGGCTGCCCCCAAGCATCGTCCCTTCAGAAAAGCTGTTCACACACCCACTGAGAACGGTAGCC
TTGGCCAATCCAGGCTCATGATGGAACATTTTAAAAAATTATCTTTTGAAAGTGAATCTTCCCTTAATATACT
TTCAGTATTGAAACTCACGACGGCACCCTAGGCCAGAGGCGTGGCTGCCCCAGCGTTAGCAGCCTGTACCAGGT
CTATGACCCGCTCTGCCACGGCTGTGTACGACATCAGACCAGGCACTCTCAGGGCCGCTCTCCAGCTCACCACA
GTGTCTCCACGTGCCTTACCCCTTCTCCTTCAGGCCAAGTTTCGCGGGGTGTTTTATTAAGACGTCCACTAGAAA
TAGCTTGTCCTGTCAACTATGAAATATGGTGACTAGATTTTAATTCATAACCGTAAAGTTTTTAAAGTTTTGGG
TTAGTAATTTGTTTTACTAGAATGACAAAGAAGATGTAAACCATTTTATTCTGTAGGCTTTTTACTCAATTATGT
ACAAACCACAAATCAGGTACTGTATTTTAGTGAAGCATTGCTTTAATTGCAACAGAATAGCTTTTGTGGCTATCA
AATGAAATCTGTAAATAGGAGGTGGAGGGCAAGCCATCCTGACTGAGCAGTTTTTAACCGCAGGTTCTAAAGTGT
CCCGCGGAGTACAGATAATATTCTGGAAGGTAAGTGTACTACGACAGAGACGTGGCATTGTGAAACGAACTT
AGATGTTTCATGGAGCTTATTTTGAGAACTTTCCCATTTTCAGGTTTCTGCATTTCAGGCTTTACATGGTCAGTTAA
CTCAGAGATACCCCAAGCTGTTTATCATCAGCTCCTCTGAAATGTGATCCCTTTGTAAGTGTGCTCATCACTTCGC
CAGTGCGTTCAATGACACGCTGATGGCAGGTGGTCCCTGCTGAAACCCCCACGCCTCCGCTTCAGCATCTCCACG
CTCTGAAGCTGTCTTTCAAAATGTGTGCACTGACCCCTTGTTTGATCAAATTTGTGTAAAATTTTTTTAGAAGA
GATGGCTTATTAACAGGGAAGAAGCTTGTTATATTCCAGTTGTAAAGAATAGCCTTAGTGTAGATTTTTTTATG
ATAGGGAAGATGCGGCCATCACTGGGATATTTTCAAATCCCAAGGACATCAGAGTGAAGTGTGAGTTGTCAGATG
ATTTTAAAAAGTTATGTCTTCAGAGAAAAAAGATTCAATTTCTCATTTTAAACCAATTAAATATTCTGAGTGAGA
CTAATCACTCATTTGCCTACGACCTTTTAGAAAAGTTGTTTTGTTGAAATACTGTACGTACGCTTAATCTAAATT
TGCATTGACTATGTTTTAGTGTATTTATAAATGGTGAAGTCAAGTTTCTGAAATTAACTTCTTATTTGCAATTTT

6618/6881
FIGURE 6109

CCATGTTGGCCAGGCTGGTCTGAGAGAGAACTCCTGACCTCGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGG
GATGACAGGCGTGCGCCACTGCACCCGGCCCGTGAAGGTCTTTTCTGAAGGGAGCTACCTTTGAGAAGTGCTGT
TGGGACAGAACTCCCTGCTCTGGTCTGACCCTCTGCACGCTAGGGTGGTCCTGCACCTGTCGGGGAGGGGGCCAA
GGACACAGCACTGGGCTGGGGCAGGGCTCTGCGCTGGTGCTGCCTGCCATCCCAGTTCTGCCATTCCCCAGCGC
ACCCCGCAGCCGCCCCCTCCAGCTGATGCCTGCTCCCTCTCTCTGCAGAACGGGCTCATGTGCGGGCTGATGCAG
ATGCTGCTGCTGAAGGTGTCTGCACACATCACCGAGCAGCTGGGCATGGCCCCAGGTGGCGAGTTTCAGGGAGGCC
TTCAAGGAGGTGGGCACAGGGTGAGGTAGGGGGTGGCCACAGGGATGTGGCTCACAGGGGTGGTCCGGGGTTCCC
AGTGCTCCCCAACACCCAGCCTCTGCTCCAGGCCAGCAAGGTGCCTTTCTGCAAGTTCCACCTGGGTGACCGACC
CATCCCCGTCACCTTCAAGAGGGCCATCGCAGCGCTCTCCTTCTGGCAGAAGGTCAGGCTGGCTTGGGGCCTGTG
CTTCTGTGACAGCCCCATCAGGTAGGGCTGCCCCGGGACCCCTGGCCGGCCTGCAGGGTGGTCTGTGGGAGGCTC
CAGGCCCTCCTGTGAGGTCCAAGCGCAGCCAATCCTCACTCAAGGCCTTCCCTGCCCTTTCTTCCGCCACAAA
TCCCAAACAAACGTGCTGTGGTCCCTGCCCCGTGTCCACAGTGCCAGCCCCACCCCCCAGCCCGTTGCCCATCC
CTGCGGGGCTGCAGCCATCCCTCTCCACAGCAAGGATGACGTGGAACGCTGCAAGCAGAAGGACCTACTGGAGCA
GATGATGGCCGAGATGATTGGCGAGTTCCAGACCTGCACCGCACCATCGTCTCGGAGCGCGACGTCTACCTAAC
CTACATGCTGCGCCAGGCCGCGCGGCGCCTCGAGCTGCCTCGGGCCTCTGACGGTGACGGCCGCGCCGAGGCGTG
GGACCCCTGTGAGGCTGAGGCCCGAGCAGGTACTGACCCCTTGTCTTCCCCACAGCCGAGCCAGGAAGTGCG
TCCCTCCGTGGTCTGTTGGCGTCTGGGCTGTTGGCCACGTGCCTGGCATCGAGAAGAAGTGGAGCACCGACCTCA
ACATCCAGGAGATCATGACCGTCCCCCGCCGTCCGTCTCCGGCAGAGTGTCTCGGTTGGCCGTGAAGGCCGCT
TCTTCGGCCTGCTGGGCTACAGCCTGTACTGGATGGGCCGCGCACCGCGAGCCTGGTCTGTGCTGCCCCGCCG
CGCAGTACTGCCTGCAGAGGGTGACCGAGGCCCGGCACAAGTAGGAGACTGCTCCCCGCCGCTCGGGCCCCCTGA
GGAGCCAGTCCCCCGCGGCACCTTCTGGGTGCCAGGTGCATCCTAGCCCGCCGAGGCCCTGCCACCCCCCATG
GGGTCTGGGCCCCGCTCGCTGCCCTCCTGGGCCAGTACCCCTCCCCAGCCACCCAAATAAAGGATTATT
TAACTGTCTGAAAAAAAAAAAAAAAAAAAA

6619/6881
FIGURE 6110

MWLTGVVRGSQCSP T PSLCSR PARCL SASSTWVTD P S P S R G P S Q R S P S G R R S G W L G A C A S C Q T P S G R A A P G T L
A G L Q G G L W E A F G P P V Q V Q A Q P I L T Q G L P C F L P P Q I P N K R A V V P A R C P Q C Q P H P P S P L P I P A G L Q P S L S T A R M T W
N A A S R R T Y W S R

6620/6881
FIGURE 6111

GCTGGGCGACGGCGCCGCCATGTACCTGGGCGAGGTGTGCACGGCGACCGGCGAGCGCTGGGAGCTGCAGCTCAA
GGGCGCCGGGCCCCACGCCCTTCTCCAGACAGGCCGACGGTCGCAAGGTCCTACGGTCAAGCATCCGGGAGTTTCT
ATGCAGCGAAGCCATGTTCCACCTGGGAGTCCCCACCACACGGGCCGGCGCCTGCGTCACGTCCGAGTCCACGGT
GGTGC GCGACGTGTTCTATGATGGTAATCCCAAATATGAACAATGCACGGTTGTGTTGCGTGTAGCTTCCACTTT
CATAAGGTTTGGATCCTTTGAGATTTTTAAGTCTGCAGATGAGCACACAGGGCGTGCAGGCCCCAGCGTGGGGAG
GAACGACATTGAGTGCAGCTGCTCGACTATGTCATCAGCTCCTTTTACCCCGAGATCCAGGCTGCTCATGCCAG
CGACAGCGTGCAGAGAAATGCTGCCTTCTTCCGGGAGGTGACGCGGCGCACGGCGCGGATGGTGGCCGAGTGGCA
GTGTGTGGGCTTCTGCCACGGCGTGTCAACACCGACAACATGAGCATCCTGGGGCTCACCATCGACTACGGGCC
CTTTGGCTTCTTGGACAGGTACGACCCCGACCACGTGTGCAATGCCTCCGACAACACCGGCCGCTACGCGTACAG
CAAGCAGCCCCGAGGTGTGCAGGTGGAACCTGCGGAAGCTGGCCGAGGCCCTGCAGCCGGAAGTGGCCCTGGAGCT
GGGGGAGGCCATCCTGGCCGAGGAGTTTGACGCCGAGTTCCAAAGGCACTACCTGCAGAAGATGCGCAGGAAGCT
GGGCCTCGTGCAGGTGGAGCTGGAGGAAGACGGGGCGCTGGTGTCCAAGCTCCTGGAGACCATGCATCTGACCGG
TGCCGACTTCACAAACACCTTCTACTTGCTGAGCTCCTTCCAGTGGAGCTAGAGTCGCCAGGCCTGGCGGAATT
CCTGGCCAGGCTGATGGAGCAGTGTGCCTCCCTGGAGGAGCTGAGGCTGGCCTTCCGGCCCCAGATGGATCCCCG
GCAGCTATCCATGATGCTGATGCTGGCGCAGTCAAACCCGCAGCTGTTTCGCGCTTAAGGGACCCGGGCAGGCAT
CGCCAGGGAGCTGGAGCGTGTGGAGCAGCAGTCTCGGCTGGAGCAGCTGAGTGCGGCAGAGCTGCAGAGCAGGAA
CCAGGGCCACTGGGCTGACTGGCTACAGGCGTACAGAGCCCGGCTGGACAAGGACCTGGAAGGCGCTGGGGACGC
TGCCGCTTGGCAGGCTGAGCACGTGCGCGTGATGCACGCCAACAACCCGAAGTACGTGCTGAGGAACCTACATCGC
GCAGAAATGCCATCGAGGCTGCCGAGCGCGGGGACTTCTCAGAGGTGCGGCGGGTGCTGAAACTACTGGAGACCCC
TTACCACTGCGAGGCGGGGGCCGCCACAGACGCCGAGGCCACGGAAGCCGACGGGGCGGACGGCAGGCAGCGCTC
CTACAGCAGTAAGCCCCGCTCTGGGCAGCAGAACTGTGCGTGACATGTGATCTTCGTAACGGCCTCGGCACGCTCC
ACACCCCTGGAGTCTCCCGAGGCCCCCATGTGCTGCTGAGTGGCCAAGATGATGCCAGGCTGCCCTATACACTGG
GGGATTCTGCCCTGGCCCATGCACACCCGTCTTTCCATGATGGCAGAGACATCCAGTCAGGACCTGACCCGTCTC
TGTCTGAGGCCGGCTCAGCAGTGCAGCCTGGTCCCTGGGGGCTGGACCCAGGCTCCTAAATAAACAGCAACTCC
CTCG

6621/6881
FIGURE 6112

MYLGEVCTATGERWELQLKGAGTPPFSRQADGRKVLRSSIREFLCSEAMFHLGVPTTRAGACVTSESTVVRDVFY
DGNPKYEQCTVVLRVASTFIRFGSFEIFKSADHTGRAGPSVGRNDIRVQLLDYVISSFYPEIQAAHASDSVQRN
AAFFREVTRRTARMVAEWQCVGFCHGVLNTDNMSILGLTIDYGPFGLDRYDPDHVCNASDNTGRYAYSKQPEVC
RWNLRKLAEALQPELPLELGEAILAEFDQAEFRHYLQKMRRLGLVQVELEEDGALVSKLLETMHLTGADFTNT
FYLLSSFPVELESPLAEFLARLMEQCASLEELRLAFRPMQDPRQLSMMLMLAQSNPQLFALMGTRAGIARELER
VEQQSRLEQLSAAELQSRNQGHWADWLQAYRARLDKDLGAGDAAAWQAEHVRVMHANNPKYVLRNYIAQNAIEA
AERGDFSEVRRVLKLETPYHCEAGAATDAEATEADGADGRQRSYSSKPPLWAAELCVT

6622/6881
FIGURE 6113

GATTCTCCAGCAACAAGCTGCTGTACGCCAAGGAGATCTCCACCTACAAGAAGATGGTGGAGGATTACTACAAG
GGGATCCGGCAGATGGTGCAGGTCAGCGACCAGGACATGAACACACACCTGGCAGAGATTTCCCGGCGCCCCCTC
CCTGCGGCTGCACCCACGGCCGTGCCCACAGCGCCCCCTCCCTGCGGCTGCACCCTCGGCCGTGCCCACAGCGCC
CCCTCCCTGCGGCTCCATCCACGGCCGTGTCCACAGCGCCCCCTCCCTGCGGCTGCACCCACGGCCGTGCCCACA
GCGCCCCCTCCCTGCGGCTCCACCCACAGCCCTGCTCACAGCACCCGTCCCTGTGGGTCCATCCACAGCCGTGCG
TCACACAGGGAGACACTGAGATGGTTGGATGTGCACAACCTCTGCCTGCGCGCACACGGACTCCTTGAACACCCTC
GTGGCACTCCACCAGCTCTACCAATACACGCAGAAGTACTATGACGAGATCATCAATGCCCTTGGAGGAGGATCCT
GCCGCCCAGAAGATGCAGCTGGCCTTCCGCCTGCAGCAGATTGCCGCTGCACTGGAGAACAAGTCAGGGTGGGCT
TCCTAG

6623/6881
FIGURE 6114

GCCCTGCTCTAGCGGGCCGCGTAGCGGACATGGCGGGCTCCCGGCTCCCGCGGCAGCTCTTCCTCCAGGGCGTGG
CGGCCGTCTTCATGTTTGCTTTGCTTCCCTCTACACGCAAATCCCAGGCCTGTATGGCCCCGAGGGCATCCTAC
CTGCAAGGAGGACGCTGCGGCCCTCAGGGCAAGGGGCGCTGGCAGCAGCTGTGGGAGACCCCGACGCTGCTGTGGG
AAGCGCCGAGACTGGGGCTGGACACGGCCCAGGGCCTGGAGCTGCTGAGCCTGCTGGGTGCACTAGTGGCCCTGG
GAGCCCTGCTGCTGAGCCCACTGCGCCACCCTGTCTACTTGTGCTTTGGGGCCGCTACCTGTCAGCCTGCC
AGGTGGGCCAGGTGTTCCCTTTATTTCCAGTGGGACTCCCTGCTGCTAGAGACTGGCTTCCTGGCCGTGCTGGTGG
CCCCGCTGAGGCCAGCCTCCACCGCAAGGAGGGCCCCCAGGGCAGGCAGGCAGGGGCCCTGCCACGAAGACC
TCCCCCTTCTGGCTGGTGCGATGGCTGCTGTTCCGCTCATGTTTCGCTCAGGCGTGGTCAAGCTGACCAGCCGCT
GCCCTGCGTGGTGGGGGCTCACTGCCCTCACCTACCACTACGAGACCCAGTGCTGCCACGCCCGCCGCTGGT
TCGCACACCACCTGCCGCTGCTGGCTGCACAAGCTCAGCGTGGTGGCCACCTTCCTAATTGAGATCGCTGTGCCGC
CCCTGTTCTTCGCCCCCATTCGACGCCTGCGCTTGGCTGCTTTCTACTCGCAGGTGCTGCTGCAGGTCTTGATTA
TCATCACCGGCAACTACAACCTTCTTCAACCTGATGACGCTGGTGCTTACCCTGCGCTGCTGGACGACCAGCACC
TGGCTGCTGAGCCTGGCCACGGCAGCCGCAAGAAGACGGCCACCTCCTGGCCCAAGGCCCTGCTGGCCACCTGT
CGCTGCTGCTGGAAGTAGCCGTCTACGGGCTTCTGGCCTATGGCACTGTGCACTACTTTGGCCTGGAGGTTGACT
GGCAGCAGCGCACCATCCACTCCAGAACCCTTTACCTTCCACCAGTTTTCTCAGTGGCTGAAGACACTGACGC
TGCCCACTGTGTGGCTGGGTGTGGCTCCCTGGTCTGGGAGCTGCTGAGTGCCCTGTGGAGGTGGACCCAGGTGC
GGGGCTGGCTACGGAAGCTCAGTGCTGTAGTCCAACCTGTCCCTTGTGGGCACTGCGACCGTGGCCTTGTTCCTGA
TTAGCCTGGTGCCGTACTCCTACGTGGAGCCCGGGACCCACGGGCGCCTCTGGACCGGGGCCACCGCCTGTTG
GTGCCGTGGAGCACCTACAGCTGGCCAACCTCTACGGCCTCTTCCGCCCATGACTGGGCTTGGTGGACGGCCTG
AGGTGGTGTGGAGGGCAGTTACGACGGCCACCCTGGACGGAGATCGAGTTCATGTACAAGCCTGGGAACCTGA
GCCGGCCGCCCCCGGTGTGTGGTGCCCCACCAGCCACGCCTGGACTGGCAGATGTGGTTTGCAGCCCTGGGCCCAC
ACACGCACAGCCCGTGGTTCACAAGCCTGGTCTTGCCTGCTGTCAGGGCAAGGAGCCAGTGATCCGCCTTGTCC
AGAGCCAAGTGGCCAGGTATCCCTTCCACAAGCAGCCGCCACCTACGTCCGAGCCAGCGCTACAAGTACTGGT
TCTCCCAGCCTGGGGAGCAGGGCCAGTGGTGGCGGCCAGTGGGTGGAGGAGTTCTTCCCATCCGTGTCCCTGG
GGGACCCACGCTGGAGACGCTGCTCAGGCAGTTTGGACTACAGGAGAAAAGCCACCTCGCACCCGCAGCGCCA
ACAGCACCCCTGGCCCAGGCCCTCCACTGGACTCGCTCTCAGCTGTCTCCCTGGAGGCCCCCGCCCTGCTCTGGG
GGCTCCTCATGGCCGTGGGGGCTGTGAGATTGTGCAAGCCCTGCTAGCACCTGTCTCTCCGGTCTTCCCGC
TGGCACCACTCAGCGGGGAGAAGCGCAGGCCAGCCTCCAGAAAGACTCCGGAGCTGCCTCCGAACAGGCCACCG
CAGCCCCCAACCCCTGCTCCAGTAGTTCGAGGACCACCCGGCGAAAGAAGTAGCTGTGTTCTCCAGCTGCACGT
CCTGAGAGGGCCAGGTGCGCGGAGTGCTCTGGCCTCCGGCAGGACAGGACCCAGCCACTGTGCCTTAGCTGACC
CTGCAGGGCCAGGCACAGGTTGGGGGGCTGCCCTGGGGTTTGCAGGGTGTGCTGATTGAGGGCTCCAGGCCCCAC
CCCCACGCCAGCCATGCCCTTCCCAGGACTCCCACTATTGCCTCTGTGATTGGCCAGGAGGAAAACACGACCA
AGCTCAAGACCCTTCCCCTGCCCTGGGCTGTGGGGGTCTGAGTCTAGAGCCCCCAACCTAGGCCCGCTGCCAGA
GGGAAGAGGCTGACTCCCAGGGGAAGAGGGGAAGCACTGTCTCTCCACGTCTCTTACACCAGCCATCCT
GCCCTTTAGATCTGGGCACCAATAAAGGCGTCTTTTGTGCTTG

6624/6881
FIGURE 6115

MAGSRLPRQLFLQGVAAVFMFAFASLYTQIPGLYGPEGILPARRTLRPQGKGRWQQLWETPTLLWEAPRLGLDTA
QGLELLSLLGALVALGALLSPLRHPVIYLLLWAAYLSACQVGQVFLYFQWDSLLETGFLAVLVAPLRPASHRK
EAPQGRQAGALPHEDLPFWLVRWLLFRLMFASGVVKLTSRCPAWWGLTALTYYHYETQCLPTPAAWFAHHLPVWLH
KLSVVFATFLIEIAVPPLFFAPIRRRLRLAAFYSQVLLQVLIITGNYNFFNLMTLVLTALLDDQHLAAEPGHGSR
KKTATSWPKALLATLSLLELAVYGLLAYGTVHYFGLEVDWQORTIHSRTTTFTHQFSQWLKTLTLPTVWLGVAS
LVWELLSALWRWTQVRGWLRLKLSAVVQLSLVGTATVALFLISLVPYSYVEPGTHGRLWTGAHRLFGAVEHLQLAN
SYGLFRMTGLGGRPEVVLEGSYDGHHWTEIEFMYKPGNLSRPPVVPVPHQPRLDWQMWFAALGPHTHSPWFTSL
VLRLQKGKEPVIRLVQSQVARYPFHKQPPTYVRAQRYKYWFSQPGEQGQWRRQWVEEFFPSVSLGDPTELTLLR
QFGLQEKSPPRTRSANSTLAQALHWTRSQLSPLEAPALLWGLLMAVGAVRFVQALLAPCSLRSSPLAPVSGEKRR
PASQKDSGAASEQATAAPNPCSSSSRTTRRKK

6625/6881
FIGURE 6116

AGCAAAATGGCGCCAGAACTAGTGGCGGGCTGAGGACGCCGTACCCCTCGGAAGGCAGCCCTGCGGTCCCTTTGC
CGCCCGTTCCCTCCCGGACATGGAGGACGTGGAGGCGCGCTTCGCCACCTCTTGAGCCCATCCGCGACCTCAC
CAAGAACTGGGAGGTGGACGTGGCGGCCAGCTGGGCGAGTATCTGGAGGAGCTGGATCAGATCTGCATTTCCTT
TGACGAAGGCAAGACCACAATGAACTTCATTGAGGCAGCGTTGTTGATCCAGGGCTCTGCCTGCGTCTACAGTAA
GAAGGTGGAATACCTCTACTCACTCGTCTACCAGGCCCTTGATTTTCATCTCTGGAAAGAGGCGGGCCAAGCAGCT
CTCTTCGGTGCAGGAGGACAGGGCCAATGGGGTTGCCAGCTCCGGGGTCCCCAGGAGGCAGAGAATGAGTTCCT
GTCGCTGGATGACTTCCCTGACTCCCGGACTAACGTGGATCTCAAGAATGATCAGACGCCAGTGTGAGTCCTCA
TCATCCCCCTCCTGCCCATGGCCCTGGTGGCCCTGATGAAATGGAGAAGAACAACAATCCCCGTGTACAGCCGTC
AGGGTGAGGTCTTGCCAGCCGGAAGGATTTAGGATGAACACGTGCGTTCCCCACCCAGAGGGGCCCTTCATGT
TGGAGCCAGAGGGCATGTCCCCATGGAACCAGCGGGCGTTTTCCCCATGCCAGGGACCCAGAAGGACACCGGGA
GGACTGAGGAGCAGCCAATGGAAGTTTCCGTGTGCAGGAGCCCTGTCCAGCACTCGGCTTCTCCAGGAGCCAG
GCCCCCTCTCCAGAAGGCCCGATGCCCCTGGGTGGGGGCGAGGACGAGGATGCAGAGGAGGCAGTAGAGCTTCCTG
AGGCCTCGGCCCCCAAGGCCGCTCTGGAGCCCAAGGAGTCCAGGAGCCCGCAGCAGAGTGCTGCCCTGCCAGGA
GGTACATGCTGCGGGAGCGGGAGGGGGCCCCAGAGCCTGCATCCTGCGTGAAGGAGACTCCAGACCCCTGGCAGA
GCCTGGACCCCTTTGACTCCTTGAGTCTAAGCCCTTCAAGAAAGGTAGGCCTTACTCTGTGCCCCCTGTGTGG
AGGAGGCTCTGGGACAGAAGCGCAAGAGGAAGGGCGCTGCCAAGCTGCAGGACTTCCACAGTGGTACCTGGCTG
CCTATGCAGACCATGCCGACAGCAGGCGGCTTCGGCGAAAGGGTCCGTCCTTTGCAGACATGGAGGTCCCTGTACT
GGACACACGTGAAGGAGCAGTTGGAACTCTCCGGAAGCTGCAGAGGAGGGAGGTGGCTGAGCAGTGGCTGCGGC
CTGCAGAGGAGGACCACCTGGAGGATTCCCTGGAAGACCTGGGGGCGAGCAGATGACTTTCTAGAGCCTGAGGAGT
ACATGGAGCCCCGAGGGAGCAGACCCAGGGAAGCCGCTGACCTTGACGCACTGCCGATGTCCCTGAGCTACGAGG
AGCTGGTTTCAAGGAATGTGGAGCTCTTCATCGCCACCTCCCAGAAGTTTGTCCAGGAGACAGAGCTGAGCCAGC
GCATCAGGGACTGGGAGGACACAGTGCAGCCTCTGCTCCAGGAGCAGGAGCAGCATGTGCCCTTTGACATCCACA
CCTATGGGGACCAGCTGGTCTCACGGTTCCCCCAGCTCAATGAGTGGTGTCCCTTTGCGGAGCTGGTGGCTGGCC
AGCCGGCCTTCGAGGTGTGTCGTTCCATGCTGGCCTCCCTGCAGCTGGCCAATGACTACACAGTGGAGATAACCC
AGCAGCCCGGGCTGGAGATGGCCGTGGACACCAITGTCCTTGAGACTGCTCACGCACCAGCGAGCGCACAAAGCGCT
TCCAGACCTACGCTGCCCCCTCCATGGCCCAGCCCTTGAGTGGGGAGCACCGAGGCAGGGGTGGGGGAATGTGTAC
TGAGGAGCCGTGTGTCTGCTCCTGGCTGGCCCGGCCCTAATAAAGCAGTGTGCCATCTCATCTTCCCCCTAAAAA
CCCTTTTATGTACACCTGCGCAGAGAAGAGGGGCTGCCTGGCCTCCCTGGGCGGCTGGTACAGATCACACACACAC
ACAGATTAAACGCAGCCCGTTTAATGATGGGGCCAGACTGCAGTGGCTCAAGACAGGACACTGCGGAAAGCCGC
CATGTGCCCGCCGACACTGTCTGAGATCTGCTCAGCCGATCTGCTCCGGCCGTAGTAATCCGTGAAGAGGCCGTC
AGGGTTGAGCAGGTAGATGGCAATGGAGTGGTCCACGATGTAGTCTGCTCCTCATCCTTGGGGCCTGCATTGTA
GTACACGCGGTAACCTGTGACTAGCCTGGGCAACCTGTTTGGTGGAGCCGGTCAGACCCAACAGTCTTGGGTGGAA
GTCCTGGACGTAGCGGGCCATGGCTTCAACGTCTGCCGCTCGGGGTCCACAGTGATGAAGACAGGCTGCACTGG
AGGCAAACCAGGCTCTGCTTCCAGCTGCCGCACCACCTGCACCAGCTTCTCCAGCTCGTCTGGGCAGATGTCAGG
GCAGTGAGTGAAGCCAAAGTACATCAGCACCCACTGGCCCCGGAAGTCAGCCTTGACGCGAGCCCGGCCTCTGTG
ATCCAGCAGGTGGAAGTCGCCCTGGCCCACAGCTGCCTGGCGCAGGGCTTCTGTTGCTTTTGCTGCTGCAGCCT
CTCCTTCTCAGCCCTCAGGGCCAGCCAGGCCCCACCAGTCCAGCCCCGAACAGGCCTGTGATCAGCAGCCGGGT
TCGAAGCCCAGGGCCCTGGGGCTGGCCCTGCCACCTGTCTCTGCAGGGCCCTGCCTTGACAAAAGCCAGGACCT
CAGATGCAGGGCCTGGCCTCCAGGGTCCAGGGAGGACCCGAGGCTTGAGCTGAGAGAGCCTGTGCCAAGCTGT
GGGGCTCCGAGTCAGCAGCAGCATGGATCTGATGCTCCTGGAAACAAGCACAGGCGTCAGGAGCCAGAAGGGAAG
GCCCAGGACAGTGCCTGGGCTGCCCTGCGACTTGAGACCAGCCACCCATCTGAAGGACCCAGCCCACGTTTCAGG
CTTAACAGGCATTTGCAGCTGCTCACCTGAGCTCAGAACTCCACCTCCACCAAACATCCACACCTGGGCAACCAC
ACCTGTCACTCCTGTCTCTACCTGGGATCACCAGCCTGTACCGCACCCCTGCCCTGCACCTGCACCTCAGCAAG
GTGAACCTCTTGCTGACGGAAAGCATTCCAAGTGCATGCCTTGCTGAACTAACCACGTTATCTATTTGCAATAA
ACCCATTTCTTAAAGG

6626/6881
FIGURE 6117

MALVAPDEMEKNNNPLYSRQGEVLASRKDFRMNTCVPHPRGAFMLEPEGMSPMEPAGVSPMPGTQKDTGRTEEQP
MEVSVCRSPVPALGFSQEPGPSPEGPMPLGGGEDEDAEEAVELPEASAPKAALEPKESRSPQQSAALPRRYMLRE
REGAPEPASCVKETPDWPQSLDPFDSLESKPFFKKGRPYSVPPCVEEALGQKRKRKGAAKLQDFHQWYLAAYADHA
DSRRLRRKGPSFADMEVLYWTHVKEQLETLRKLQRREVAEQWLRPAEEDHLEDLEDLGAADDLFLEPEEYMEPEG
ADPREAADLDAVPMSLSYEELVRRNVELFIATSQKFVQETELSRIRDWEDTVQPLLQEQEQHVPFDIHTYGDQL
VSRFPQLNEWCPFAELVAGQPAFEVCRSMLASLQLANDYTVEITQQPGLEMAVDTMSLRLLTHQRAHKRFQTYAA
PSMAQP

6627/6881
FIGURE 6118

GCTTTCCACAGCGCGGGGGAACGGGAGGCCGCAGGATGGTCAAGCTGACGGCGGAGCTGATCGAGCAGGCGGCGC
AGTACACCAGCGCGGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTCCCGTCATTGAAAATCTAGGTG
CTACGTTAGACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAACTGGATGGTTTTCTTTGTTGA
GAAGACTGAAAACGTTGTTAGTGAACAAAACAGAATATGCCGTATAGGTGAGGGACTTGATCAGGCTCTGCCCTG
TCTGACAGAACTCATTCTACCAATAATAGGCTCGTGGAAGTGGGTGATCTGGACCCTCTGGCATCTCTCAAATC
GCTGACTTACCTAAGTATCCTAAGAAATCCAGTAACCAATAAGAAGCATTACAGATTGTATGTGATTTATAAAGT
TCCGCAAATCAGAGTACTGGATTTCCAGAAAGTGAAGTAAAGAGCGTCAGGAAGCAGAGAAAATGTTCAAGGGC
AAACGGGGTGACAGCTTGCAAAGGATATTGCCAGGAGAAGCAAACTTTTAATCCAGGTGCTGGTTTGCCAACT
GACAAAAGAAAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATGCTATAGCAAATGCTTCAACTCTG
GCTGAAGTGGAGAGGCTGAAGGGTTGCTGCAGTCTGGTCAGATCCCTGGCAGAGAACGCAGATTGGGGCCCACT
GATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCCTGAGCAGTGAGGCAGATGTATAATAAT
AGGCCGTCTTGAACAAGTCTTGCTTTTCAAACATAGTATAATAGCCTTGTTTGTTGTTAGCAAAGTGAATCTAT
CAGCATGGTTGAAATGCTTAAGACTGCTGCTGATAATTTTGTAATATAAGTTTGAAATCTAAATGTCAATTTTC
TACAAATTATAAAAATAAACTCCACTCACTGTGCTACC

6628/6881
FIGURE 6119

GTCTTAGCGGCTGCGCGGTGGCTGCTCCGTCCTTTTCGGTCCAGGCGGCGGCAGGGCTGAGCCAGCGACGCCCTCC
ATTCACTCTCCGCGCCCGTTCTCCGGCTGTCCTCCCGTTCCGCTGCCCCCCCTGCCACCATGACGGAACAGGCCA
TCTCCTTCGCCAAAGACTTCTTGCCCGGAGGCATCGCCGCGCCCATCTCCAAGACGGCCGTGGCTCCGATCGAGC
GGGTCAAGCTGCTGCTGCAGGTCCAGCACGCCAGCAAGCAGATCGCCGCGACAAGCAGTACAAGGGCATCGTGG
ACTGCATTGTCCGCATCCCCAAGGAGCAGGGCGTGTCTTCTGGAGGGGCAACCTTGCCAACGTCATTTCGT
ACTTCCCCACTCAAGCCCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTTCCTGGGGGGCGTGGACAAGC
ACACGCAGTTCTGGAGGTACTTTGCGGGCAACCTGGCCTCCGGCGGTGCGGCCGGCGCGACCTCCCTCTGCTTCG
TGTACCCGCTGGATTTTCGCCAGAACCCGCCTGGCAGCGGACGTGGGAAAAGTCAGGCACAGAGCGCGAGTTCCGAG
GCCTGGGAGACTGCCTGGTGAAGATCACCAAGTCCGACGGCATCCGGGGCCTGTACCAGGGCTTCAGTGTCTCCG
TGCAGGGCATCATCATCTACCGGGCGGCCTACTTCGGCGTGTACGATACGGCCAAGGGCATGCTCCCCGACCCCA
AGAACACGCACATCGTGGTGAGCTGGATGATCGCGCAGACCGTGACGGCCGTGGCCGGCGTGGTGTCTACCCCT
TCGACACGGTGCGGCGGCGCATGATGATGCAGTCCGGGCGCAAAGGAGCTGACATCATGTACACGGGCACCGTCG
ACTGTTGGAGGAAGATCTTCAGAGATGAGGGGGGCAAGGCCTTCTTCAAGGGTGCGTGGTCCAACGTCCTGCGGG
GCATGGGGGGCGCCTTCGTGCTGGTCTGTACGACGAGCTCAAGAAGGTGATCTAAGGGCCGCGGCCTCTCCAC
ACACACACACACACCAGGGGAACCAAGAGAACCACGTAGAACTCCTCAACCGTGCGGACCATCAACCTTCGAGAAA
TTCCAGTTGTCTTTTCCCAGCCGCATCCTGCCTGTAGATGGCCGGGGAAGGCTCTAGAAAAGGGGCGCATTGCG
ATCCAACCATCGGCAGCCGATTCCGTGTCTTGATCACGGGGTGGGAGGGAACCGTGGCGTCCCTGCGTGGGGCCC
ATGGGTGAGACACTCCAGTACTGAGACCTAGAGTCCAGATGCTTGTAGGAGCCAAGTCGTGTTCTAAGTATTTAT
TTAAAACAAAAGAATCACGTTTTCCATTTGTACTTCAGCGCTAGCCCCCTGTTTTGCACAGCCGAGTACTGGCGA
GTATGTTCTATGTTGGGCCTCCTGCTGCAAAACAATAAACAGAGGACGCAGAGGTC

6629/6881
FIGURE 6120

MTEQAISFAKDFLAGGIAAAISKTA VAPIERVKLLLQVQHASKQIAADKQYKGIVDCIVRIPKEQGVLSFWRGNL
ANVIRYFPTQALNFAFKDKYKQIFLGGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKSGT
EREFRLGDCLVKITKSDGIRGLYQGFVS SVQGI IYRAAYFGVYDTAKGMLPDPKNTHIVVSWMIAQTVTAVAG
VVSYPFDTVRRRMMM QSGRKGADIMYTGTVDCWRKIFRDEGGKAFFKGAWSNVLRGMGGAFLVLVLYDELKKVI

6630/6881
FIGURE 6121

ATGGTTCTCTTCGCCGCCTGCGAGCTGGGCGTGTTTGACCTTCTCGCCGAGGCCCCAGGGCCCCCTGGACGTGGCG
GCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGTCCCTGAAGCTG
CTGAAAGTGAGACGAGGGGAGGAAAAGCTTTCTATCGAAACACAGAGCTGTCCAGCGACTACCTGACCACGGTC
AGCCCGACGTCACAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTGGGGCCACCTGGCAGAC
GCCGTGAGAGAAGGAAGGAACCAGTACCTGGAGACGTTTGGCGTTCCCGCTGAAGAGCTTTTTACGGCCATCTAC
AGGTCCGAGGGCGAGCGGCTACAGTTTATGCAAGCTCTGCAGGAGGTCTGGAGCGTCAACGGGAGAAGCGTGCTG
ACCGCCTTTGACCTGTCAAGTGTTCCTTATGTGTGACCTTGGTGGTGGGGCTGGAGCTCTGGCTAAGGAATGC
ATGTCTCTGTACCCTGGATGTAAGATCACCGTTTTTGACATCCCAGAAGTGGTGTGGACGGCAAAGCAGCACTTC
TCATTCCAGGAGGAAGAACAGATTGACTTCCAGGAAGGACCTGCTCAATCCATAAGACGATTAATGAGTGCTAAT
GATGGCAAGCGCTCCAGAGGCTCCGGAAGCCACGGCTGGATTGGAGACAAGATGGGATCCTCAGAGGACCAGGCC
TATCGCCTCCTTAATGACTACGCCAACGGCTTCATGGTGTCCAGGTGAAGAGATGCAGAGGGTCCAAGAGGATT
TCACAGAGTTCACAGAAACCAGCTCCTCAAGAGACATCAAGTCACCCAAGAATAGACAAGCAGGATGATGCACGC
AGATCTTCCAGATGCTTCCAGATCTTCCAGATGCTCCCAGAAGAGCTAGAGCAGAGGCAATGA

6631/6881
FIGURE 6122

TCCAAGGTTCTCTTCGCCGCTGCGAGCTGGGCGTGTTTGACCTTCTCGCCGAGGCCCCAGGGCCCCCTGGACGTG
GCGGCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGTCCCTGAAG
CTGCTGAAAGTGGAGACGAGGGGAGGAAAAGCTTTCTATCGAAACACAGAGCTGTCCAGCGACTACCTGACCACG
GTCAGCCCCGACGTCACAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTGGGGCCACCTGGCA
GACGCCGTGAGAGAAGGAAGGAACCAGTACCTGGAGACGTTTGGCGTTCCCGCTGAAGAGCTTTTTACGGCCATC
TACAGGTCCGAGGGCGAGCGGCTACAGTTCATGCAAGCTCTGCAGGAGGTCTGGAGCGTCAACGGGAGAAGCGTG
CTGACCGCCTTTGACCTGTCAGTGTTCCCACTTATGTGTGACCTTGGTGGGACATGGATAAAGCTGGAAACCATC
ATTCTCAGCAAACATATCGCAAGGACAGAAAACCAAACACCGCGTGTTCTCACTCATAGGTGGGGCTGGAGCTCTG
GCTAAGGAATGCATGTCTCTGTACCCTGGATGTAAGATCACCGTTTTTGACATCCCAGAAGTGGTGTGGACGGCA
AAGCAGCACTTCTCATTCCAGGAGGAAGAACAGATTGACTTCCAGGAAGGGGATTTCTTCAAAGACCTCTTCCG
GAAGCTGATCTGTACATCCTGGCCAGGGTCCTCCATGACTGGGCAGACGGAAGTGCTCACACCTGCTGGAGAGG
ATCTACCACACTTGCAAGCCAGGTGGTGGCATTCTGGTAATTGAAAGCCTCCTGGATGAAGACAGGCGAGGTCCT
CTGCTCACGCAGCTCTACTCTCTGAACATGCTTGTGCAGACGGAAGGGCAGGAGAGGACCCCCACCCACTACCAC
ATGCTCCTCTCTTCTGCTGGCTTCAGAGACTTCCAGTTTAAGAAAACAGGAGCCATTTATGATGCCATTTTAGCC
AGGAAATAACTGTTTCTTGTGACCTGGAACCTAACGTCAAAGCACACAAGACATAATAATAAAGACATGTACCTCC
A

6632/6881
FIGURE 6123A

ATGCCCAAGCGCGCGCACTGGGGGGCCCTCTCCGTGGTGCTGATCCTGCTTTGGGGCCATCCGCGAGTGGCGCTG
GCCTGCCCCGATCCTTGTGCTGCTACGTCCCCAGCGAGGTCCACTGCACGTTCCGATCCCTGGCTTCCGTGCCC
GCTGGCATTGCTAAACACGTGGAAAGAATCAATTTGGGGTTAATAGCATACAGGCCCTGTCAGAAACCTCATT
GCAGGACTGACCAAGTTGGAGCTACTTATGATTACGGCAATGAGATCCCAAGCATCCCCGATGGAGCTTTAAGA
GACCTCAGCTCTCTTCAGGTTTTCAAGTTCAGCTACAACAAGCTGAGAGTGATCACAGGACAGACCCTCCAGGGT
CTCTCTAACTTAATGAGGCTGCACATTGACCACAACAAGATCGAGTTTATCCACCCTCAAGCTTTCAACGGCTTA
ACGTCTCTGAGGCTACTCCATTTGGAAGGAAATCTCTCCACCAGCTGCACCCCAGCACCTTCTCCACGTTTACA
TTTTTGGATTATTTTCAGACTCTCCACCATAAGGCACCTCTACTTAGCAGAGAACATGGTTAGAACTCTTCCTGCC
AGCATGCTTCGGAACATGCCGCTTCTGGAGAATCTTTACTTGCAGGGAAATCCGTGGACCTGCGATTGTGAGATG
AGATGGTTTTTGGAAATGGGATGCAAAATCCAGAGGAATCTGAAGTGTAAGGACAAAGCTTATGAAGGCGGT
CAGTTGTGTGCAATGTGCTTCAGTCCAAAGAAGTTGTACAAACATGAGATACACAAGCTGAAGGACATGACTTGT
CTGAAGCCTTCAATAGAGTCCCTCTGAGACAGAACAGGAGCAGGAGTATTGAGGAGGAGCAAGAACAGGAAGAG
GATGGTGGCAGCCAGCTCATCCTGGAGAAATTCCAACTGCCCCAGTGGAGCATCTCTTTGAATATGACCGACGAG
CACGGGAACATGGTGAACCTGGTCTGTGACATCAAGAAACCAATGGATGTGTACAAGATTCACTTGAACCAAACG
GATCCTCCAGATATTGACATAAAATGCAACAGTTGCCTTGGACTTTGAGTGTCCAATGACCCGAGAAAACATATGAA
AAGCTATGGAATTTGATAGCATACTACAGTGAAGTTCCCGTGAAGCTACACAGAGAGCTCATGCTCAGCAAAGAC
CCCAGAGTCAGCTACCAGTACAGGCAGGATGCTGATGAGGAAGCTCTTTACTACACAGGTGTGAGAGCCCAGATT
CTTGCAAGAACAGAATGGGTTCATGCAGCCATCCATAGATATCCAGCTGAACCGACGTCAGAGTACGGCCAAGAAG
GTGCTACTTTTCTACTACACCCAGTATTCTCAAACAATATCCACCAAAGATACAAGGCAGGCTCGGGGCAGAAGC
TGGGTAATGATTGAGCCTAGTGGAGCTGTGCAAAGAGATCAGACTGTCTTGAAGGGGGTCCATGCCAGTTGAGC
TGCAACGTGAAAGCTTCTGAGAGTCCATCTATCTTCTGGGTGCTTCCAGATGGCTCCATCCTGAAAGCGCCCATG
GATGACCCAGACAGCAAGTTCTCCATTCTCAGCAGTGGCTGGCTGAGGATCAAGTCCATGGAGCCATCTGACTCA
GGCTTGTACCAAGTGCATTGCTCAAGTGAGGGATGAAATGGACCGCATGGTATATAGGGTACTTGTGCAGTCTCCC
TCCACTCAGCCAGCCGAGAAAGACACAGTGACAATTGGCAAGAACCCAGGGGAGTCCGTGACATTGCCTTGCAAT
GCTTTAGCAATACCCGAAGCCACCTTAGCTGGATTCTTCCAAACAGAAGGATAATTAATGATTTGGCTAACACA
TCACATGTATACATGTTGCCAAATGGAACCTTTTCCATCCCAAAGGTCCAAGTCAGTGACAGTGGTTACTACAGA
TGTGTGGCTGTCAACCAGCAAGGGGCAGACCATTTTACGGTGGGAATCACAGTGACCAAGAAAGGGTCTGGCTTG
CCATCCAAAAGAGGCAGACGCCAGGTGCAAAGGCTCTTTCCAGAGTCAGAGAAGACATCGTGGAGGATGAAGGG
GGCTCGGGCATGGGAGATGAAGAGAACACTTCAAGGAGACTTCTGCATCCAAAGGACCAAGAGGTGTTCTCTCAA
ACAAAGGATGATGCCATCAATGGAGACAAGAAAGCCAAGAAAGGGAGAAGAAAGCTGAAACTCTGGAAGCATTTCG
GAAAAGAACCAGAGACCAATGTTGCAGAAGGTCGCAGAGTGTGTAATCTAGACGAAGGATAAACATGGCAAAC
AAACAGATTAATCCGGAGCGCTGGGCTGATATTTTAGCCAAAGTCCGTGGGAAAAATCTCCCTAAGGGCACAGAA
GTACCCCCATTGATTAACCAACCAAGTCTCCATCCTTGAGTCTAGAAGTCACACCACCTTTTCTGCTATTTCT
CCCCCTCAGCATCTCTGTGTCAGACAGTAACCAAGTGTGAAGAATCCTCAGCAGATGTACCTCTACTTGGTGAA
GAAGAGCACGTTTTTGGGTACCATTTCCTCAGCCAGCATGGGGCTAGAACACAACCACAATGGAGTTATTCTTGT
GAACCTGAAGTAACAAGCACACCTCTGGAGGAAGTTGTTGATGACCTTTCCGAGAAGACTGAGGAGATAACTTCC
ACTGAAGGAGACCTGAAGGGGACAGCAGCCCCCTACACTTATATCTGAGCCTTATGAACCATCTCCTACTCTGCAC
ACATTAGACACAGTCTATGAAAAGCCCCACCCATGAAGAGACGGCAACAGAGGGTTGGTCTGCAGCAGATGTTGGA
TCGTACACAGAGCCCACATCCAGTGAGTATGAGCCTCCATTGGATGCTGTCTCCTTGGCTGAGTCTGAGCCCATG
CAATACTTTGACCCAGATTTGGAGACTAAGTCACAACCAGATGAGGATAAGATGAAAGAAGACACCTTTGCACAC
CTTACTCCAACCCCCACCATCTGGGTAAATGACTCCAGTACATCACAGTTATTTGAGGATTCTACTATAGGGGAA
CCAGGTGTCCCAGGCCAATCACATCTACAAGGACTGACAGACAACATCCACCTTGTGAAAAGTAGTCTAAGCACT
CAAGACACCTTACTGATTAAAAAGGGTATGAAAGAGATGTCTCAGACACTACAGGGAGGAAATATGCTAGAGGGA
GACCCACACACTCCAGAAGTTCTGAGAGTGAGGGCCAAGAGAGCAAATCCATCACTTTGCCTGACTCCACACTG
GGTATAATGAGCAGTATGTCTCCAGTTAAGAAGCCTGCGGAAACCACAGTTGGTACCCTCCTAGACAAAGACACC
ACAACAGCAACAACAACACCAAGGCAAAAAGTTGCTCCGTATCCACCATGAGCACTCACCTTCTCGAAGGAGA
CCCAACGGGAGAAGGAGATTACGCCCCAACAAATTCGCCACCGGCACAAGCAAACCCACCCACAACCTTTTGCC
CCATCAGAGACTTTTTTCTACTCAACCAACTCAAGCACCTGACATTAAGATTTCAAGTCAAGTGGAGAGTTCTCTG

6633/6881
FIGURE 6123B

GTTCTACAGCTTGGGTGGATAACACAGTTAATACCCCCAAACAGTTGGAAATGGAGAAGAATGCAGAACCCACA
TCCAAGGGAACACCACGGAGAAAAACACGGGAAGAGGCCAAACAAACATCGATATACCCCTTCTACAGTGAGCTCA
AGAGCGTCCGGATCCAAGCCCAGCCCTTCTCCAGAAAATAAACATAGAAACATTGTTACTCCAGTTTCAGAAACT
ATACTTTTGCCTAGAACTGTTTCTCTGAAAAGTGAAGGCGCCTTATGATTCTTTAGATTACATGACAACCACCAGA
AAAATATATTTCATCTTACCCTAAAGTCCAAGAGACACTTCCAGTCACATATAAACCCACATCAGATGGAAAAGAA
ATTAAGGATGATGTTGCCACAAATGTTGACAAACATAAAAGTGACATTTTAGTCACTGGTGAATCAATTACTAAT
GCCATACCAACTTCTCGCTCCTTGGTCTCCACTATGGGAGAATTTAAGGAAGAATCCTCTCCTGTAGGCTTTCCA
GGAAGTCCAACCTGGAATCCCTCAAGGACGGCCCAGCCTGGGAGGCTACAGACAGGCATACCTGTTACCCTTCT
GGGAAAATCTTACAGACCCCTCCCTTCTTAAAGAGCTTGAGGATGTGGATTTTCACTTCCGAGTTTGTCTCT
TTGACAGTCTCCACACCATTTCACCAGGAAGAAGCTGGTTCTTCCACAACCTCTCTCAAGCATAAAAGTGGAGGTG
GCTTCAAGTCAGGCAGAAACCACCACCCTTGATCAAGATCATCTTGAAACCACTGTGGCTATTCTCCTTTCTGAA
ACTAGACCACAGAATCACACCCCTACTGCTGCCCGGATGAAGGAGCCAGCATCCTCGTCCCCATCCACAATTCTC
ATGTCTTTGGGACAAACACCACCCTAAGCCAGCACTTCCAGTCCAAGAATATCTCAAGCATCTAGAGATTCC
AAGGAAAATGTTTTCTTGAATTATGTGGGAATCCAGAAACAGAAGCAACCCAGTGAACAATGAAGGAACACAG
CATATGTCAGGGCCAAATGAATTATCAACACCCTCTTCCGACCAGGATGCATTTAACTTGTCTACAAAGCTGGAA
TTGAAAAGCAAGTATTTGGTAGTAGGAGTCTACCACGTGGCCAGATAGCCAACGCCAGGATGGAAGAGTTTCT
GCTTCTCATCAACTAACAGAGTCCCTGCCAAACCCATCCTACCAACAGCAACAGTGAGGCTGCCTGAAATGTCC
ACACAAAGCGCTTCCAGATACTTTGTAACCTCCAGTCACTCTCGTCACTGGACCAACAAACCGGAAATAACTACA
TATCCTTCTGGGGCTTTGCCAGAGAACAAACAGTTTACAACCTCCAAGATTATCAAGTACAACAATTCTCTCCCA
TTGCACATGTCCAAACCCAGCATTCCTAGTAAGTTTACTGACCGAAGAACTGACCAATTCAATGGCTACTCCAAA
GTGTTTGGAAATAACAACATCCCTGAGGCAAGAAACCCAGTTGGAAAGCCTCCCAGTCCAAGAATTCCTCATTAT
TCCAATGGAAGACTCCCTTTCTTTACCAACAAGACTCTTTCTTTTCCACAGTTGGGAGTCACCCGGAGACCCAG
ATACCCACTTCTCCTGCCCCAGTAATGAGAGAGAGAAAAGTTATTCCAGGTTCTTACAACAGGATACATTCCCAT
AGCACCTTCCATCTGGACTTTGGCCCTCCGGCACCTCCGTTGTTGCACACTCCGCAGACCACGGGATCACCCCTCA
ACTAATTACAGAATATCCCTATGGTCTCTTCCACCCAGAGTTCTATCTCCTTTATAACATCTTCTGTCCAGTCC
TCAGGAAGCTTCCACCAGAGCAGCTCAAAGTTCTTTGCAGGAGGACCTCCTGCATCCAAATTCCTGGTCTCTTGGG
GAAAAGCCACAAATCCTCACCAAGTCCCCACAGACTGTGTCCGTACCCGTGAGACAGACACTGTGTTCCCTGT
GAGGCAACAGGAAAACCAAAGCCTTTCGTTACTTTGGACAAAGGTTTCCACAGGAGCTCTTATGACTCCGAATACC
AGGATACAACGGTTTGGAGTTCTCAAGAACGGTACCTTAGTGATACGGAAGGTTCAAGTACAAGATCGAGGCCAG
TATATGTGCACCGCCAGCAACCTGCACGGCCTGGACAGGATGGTGGTCTTGCTTTCCGGTCACCGTGCAGCAACCT
CAAATCCTAGCCTCCCACTACCAGGACGTCACTGTCTACCTGGGAGACACCAATTGCAATGGAGTGTCTGGCCAAA
GGGACCCAGCCCCCAAAATTCCTGGATCTTCCCTGACAGGAGGGTGTGGCAAACCTGTGTCCCCGTGGAGGGC
CGCATCACCTGCACGAAAACCGGACCCTTTCCATCAAGGAGGCGTCTTCTCAGACAGAGGCGTCTATAAGTGC
GTGGCCAGCAATGCAGCCGGGGCGGACAGCCTGGCCATCCGCCTGCACGTGGCGGCACTGCCCGCGTTATCCAC
CAGGAGAAGCTGGAGAACATCTCGCTGCCCGCGGGGCTCAGCATTACATTCACTGCACTGCCAAGGCTGCGCCC
CTGCCCAGCGTGCCTGGGTGCTCGGGGACGGTACCCAGATCCGCCCCCTCGCAGTTCCTCCACGGGAACCTTGTTT
GTTTTCCCCAACGGGACGCTCTACATCCGCAACCTCGCGCCCAAGGACAGCGGGCGCTATGAGTGCCTGGCCGCC
AACCTGGTAGGCTCCGCGCGCAGGACGGTGCAGCTGAACGTGCAGCGTGCAGCAGCCAACGCGCGCATCACGGGC
ACCTCCCCCGGGAGGACGGACGTACGGTACGGAGGAACCTCAAGCTGGACTGCAGCGCTCGGGGGACCCCTGG
CCGCGCATCCTCTGGAGGCTGCCGTCCAAGAGGATGATCGACGCGCTCTTCAGTTTGTATAGCAGAATCAAGGTG
TTTGCCAATGGGACCCTGGTGGTGAATCAGTGACGGACAAAGATGCCGGAGATTACCTGTGCGTAGCTCGAAAT
AAGGTTGGTGATGACTACGTGGTGTCAAAGTGGATGTGGTGATGAAACCGGCCAAGATTGAACACAAGGAGGAG
AACGACCACAAAGTCTTCTACGGGGGTGACCTGAAAGTGGACTGTGTGGCCACCGGGCTTCCCAATCCCGAGATC
TCCTGGAGCCTCCAGACGGGAGTCTGGTGAACCTCTTCAATGCAGTCGGATGACAGCGGTGGACGCACCAAGCGC
TATGTCTCTTCAACAATGGGACACTCTACTTTAACGAAGTGGGGATGAGGGAGGAAGGAGACTACACCTGCTTT
GCTGAAAATCAGGTGCGGAAGGACGAGATGAGAGTCAGAGTCAAGGTGGTGACAGCGCCCGCCACCATCCGGAAC
AAGACTTACTTGGCGGTTTCAGGTGCCCTATGGAGACGTGGTCACTGTAGCCTGTGAGGCCAAAGGAGAACCCATG
CCCAAGGTGACTTGGTTGTCCCCAACCAACAAGGTGATCCCCACCTCCTCTGAGAAGTATCAGATATACCAAGAT

6634/6881
FIGURE 6123C

GGCACTCTCCTTATTTCAGAAAGCCCAGCGTTCTGACAGCGGCAACTACACCTGCTTGGTCAGGAACAGCGCGGGA
GAGGATAGGAAGACGGTGTGGATTACGTCAACGTCCAGCCACCCAAGATCAACGGTAACCCCAACCCCATCACC
ACTGTGCGGGAGATAGCAGCCGGGGCAGTCGGAAGCTGATTGACTGCAAAGCTGAAGGCATCCCCACCCGAGG
GTGTTATGGGCTTTTCCCGAGGGTGTGGTTCTGCCAGCTCCATACTATGGAAACCGGATCACTGTCCATGGCAAC
GGTTCCCTGGACATCAGGAGTTTGAGGAAGAGCGACTCCGTCCAGCTGGTATGCATGGCAGCAACGAGGGAGGG
GAGGCCAGGTTGATCCTGCAGCTCACTGTCTGGAGCCCATGGAGAAACCCATCTTCCACGACCCGATCAGCGAG
AAGATCACGGCCATGGCGGGCCACACCATCAGCCTCAACTGCTCTGCCGCGGGGACCCCGACACCCAGCCTGGTG
TGGGTCCTTCCCAATGGCACCAGATCTGCAGAGTGGACAGCAGCTGCAGCGCTTCTACCACAAGGCTGACGGCATG
CTACACATTAGCGGTCTCTCCTCGGTGGACGCCGGGGCTACCGCTGCGTGGCCCGCAATGCCGCTGGCCACAG
GAGAGGCTGGTCTCCCTGAAGGTGGGACTGAAGCCAGAAGCAAACAAGCAGTATCATAACCTGGTCAGCATCATC
AATGGTGAGACCTGAAGCTCCCCCTGCACCCCTCCCGGGCTGGGCAGGGACGTTTTCTCTGGACGCTCCCCAAT
GGCATGCATCTGGAGGGCCCCAAACCCCTGGGACGCGTTTTCTTCTGGACAATGGCACCCCTACGGTTTCGTGAG
GCCTCGGTGTTTGACAGGGGTACCTATGTATGCAGGATGGAGACGGAGTACGGCCCTTCGGTACCAGCATCCCC
GTGATTGTGATCGCCTATCCTCCCCGATCACCAGCGAGCCACCCCGTCTATCTACACCCGGCCCCGGAACACC
GTGAAACTGAACTGCATGGCTATGGGGATTCCCAAAGCTGCATCACGTGGGAGTTACCGGATAAGTCGCATCTG
AAGGCAGGGGTTTCAGGCTCGTCTGTATGGAAACAGATTTCTTCACCCCCAGGGATCACTGACCATCCAGCATGCC
ACACAGAGAGATGCCGGCTTCTACAAGTGCATGGCAAAAAACATTCTCGGCAGTGACTCCAAAACAACCTTACATC
CACGTCTTCTGAAATGTGGATTCCAGAATGATTGCTTAGGAAGTACAACAAAGCGGGGTTTGTAAGGGAAGCCA
GGTTGGGGAAATAGGAGCTCTTAAATAATGTGTACAGTGCATGGTGGCTCTGGTGGGTTTCAAGTTGAGGTTGA
TCTTGATCTACAATTGTTGGGAAAAGGAAGCAATGCAGACACGAGAAGGAGGGCTCAGCCTTGCTGAGACACTTT
CTTTGTGTTTACATCATGCCAGGGCTTCATTCAGGGTGTCTGTGCTCTGACTGCAATTTTTCTTTTTTGCAA
ATGCCACTCGACTGCCTTCATAAGCGTCCATAGGATATCTGAGGAACATTCATCAAAAATAAGCCATAGACATGA
ACAACACCTCACTACCCCATGAAGACGCATCACCTAGTTAACCTGCTGCAGTTTTTACATGATAGACTTTGTTC
CAGATTGACAAGTCATCTTTCAGTTATTTCTCTGTCACTTCAAACTCCAGCTTGCCCAATAAGGATTTAGAAC
CAGAGTGAATGATATATATATATATATTTAATTACAGAGTTACATACATACAGCTACCATTTTATATGAAAAAGAA
AAACATTTCTTCTGGAACTCACTTTTTATATAATGTTTTATATATATATTTTTCTTTCAAATCAGACGATGA
GACTAGAAGGAGAAATACTTTCTGTCTTATTAATAAATAAATAATTATGGTCTTTACAAGACTTGGATACATTAC
AGCAGACATGGAAATATAATTTTAAAAAATTTCTCTCCAACCTCCTTCAAATTCAGTCACCACTGTTATATTACC
TTCTCCAGGAACCTCCAGTGGGGAAGGCTGCGATATTAGATTTCTTGTATGCAAAGTTTTTGTGAAAGCTGT
GCTCAGAGGAGGTGAGAGGAGAGGAAGGAGAAAACTGCATCATAACTTTACAGAATTGAATCTAGAGTCTTCCCC
GAAAAGCCAGAACTTCTCTGCAGTATCTGGCTTGTCCATCTGGTCTAAGGTGGCTGCTTCTTCCCCAGCCATG
AGTCAGTTTGTGCCCATGAATAATACACGACCTGTTATTTCCATGACTGCTTTACTGTATTTTAAAGGTCAATAT
ACTGTACATTTGATAATAAAATAATATTCTCCC

6635/6881
FIGURE 6124

GGCACGAGGGGAGGCCGGGGCGGGGCGGGCGCAGCCGGCGCTGAGCTTGCAGGGCCGCTCCCCTCACCCGCCCC
TTCGAGTCCCCGGGCTTCGCCCCACCCGGCCCCGTGGGGGAGTATCTGTCTGCCGCCTTCGCCCACGCCCTGCAC
TCCGGGACCGTCCCTGCGCGCTCTGGGCGCACCATGCCCCGCGGGGCTGCGCTGGCGCTGCTGCTCTTCGGCCTG
CTGGGTGTTCTGGTCGCCGCCCCGGATGGTGGTTCGATTTATCCGATGCCCTTCCTGACAATGAAAACAAGAAA
CCCCTGCAATCCCCAAGAAACCCAGTGTCTGGGGATGACTTTGACTTAGGAGATGCTGTTGTTGATGGAGAAAAT
GACGACCCACGACCACCGAACCCACCCAAACCGATGCCAAATCCAAACCCCAACCACCCTAGTTCTCCGGTAGC
TTTTCAGATGCTGACCTTGCGGATGGCGTTTCAGGTGGAGAAGGAAAAGGAGGCAGTGATGGTGGAGGCAGCCAC
AGGAAAGAAGGGGAAGAGGCCGACGCCCCAGGCGTGATCCCCGGGATTGTGGGGGCTGTCGTGGTCGCCGTGGCT
GGAGCCATCTCTAGCTTCATTGCTTACCAGAAAAAGAAGCTATGCTTCAAAGAAAATGCAGAACAAGGGGAGGTG
GACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTGAGCGTACTCTTTTAGAGAAATTGAAGATTGTC
GGCAGAAACAGCCCAGGCGTTGGCAGCAGGGTTAGAACAGCTGCCCTGAGGCTCCTCCCTGAAGGACACCTGCCTG
AGAGCAGAGATGGAGGCCTTCTGTTACGGCGGATTCTTTGTTTTAATCTTGCGATGTGCTTTGCTTGTTGCTGG
GCGGATGATGTTTACTAACGATGAATTTTACATCCAAAGGGGGATAGGCACCTGGACCCCCATTCTCCAAGGCCC
GGGGGGGCGGTTTCCCATGGGATGTGAAAGGCTGGCCATTATTAAGTCCCTGTAACCTCAAATGTCAACCCACCG
AGGCACCCCCCGTCCCCCAGAATCTTGGCTGTTTACAAATCACGTGTCCATCGAGCACGTCTGAAACCCCTGGT
AGCCCCGACTTCTTTTAAATTAATAAGGTAAGCCCTTCAATTTGTTTCTTCAATATTTCTTTCAATTTGTAGGG
ATATTTGTTTTTCATATCAGACTAATAAAAAAGAAATTAGAAACCAAAAAAAAAAAAAAAAAAAAAA

6636/6881

FIGURE 6125

MARGAALALLLFGLLGVLVAAPDGGFDLSDALPDNENKKPTAIPKKPSAGDDFDLGDAVVDGENDDPRPPNPPKP
MPNPNPNHPSSSGSFSDADLADGVSGGEGKGGSDGGGSHRKEGEEADAPGVIPGIVGAVVVAVAGAISSFIAYQK
KKLCFKENAEQGEVDMESHNRNANAEPVQRTLLEK

6637/6881
FIGURE 6126

CGGGGCGGCGGCGGCGGCGTGAAGTCACTGCTGCTCTGGGTTGCGGTTGGCGACTGAAGGCGGTACCGGCCTCCC
GGAACAGCCCGGGGAGGGCTTAGGTGCAGAAGGGCAGGCTGGCCGCGGCCGTTTGGTCTGGGGACCACGGGCT
GGAGCAGGTGGAATTTAAATTTGTTTACAGTCAACACTGTTTCCAGCCATGGGTTTGTCTCCATCTGCTCCTGC
TGTTGCAGTTCAGGCCTCAAATGCTTCAGCGTCCCCACCTTCAGGATGCCCCGATGCATGAAGGGAAAATGAAAGG
CTGTCCAGTGAATACAGAGCCATCTGGCCCAACCTGTGAGAAGAAAACATACTCTGTGCCTGCCCACCAGGAACG
CGCCTATGAGTACGTGGAGTGTCCCATTAGGGGCACTGCGGCTGAGAATAAGGAGAACCTAGATCCTTCAAATCT
GATGCCACCACCAAATCAAACACCAGCTCCAGATCAGCCATTTGCATTGTCTACTGTCAGAGAAGAGTCATCCAT
TCCGAGAGCAGATTCAGAGAAAAAGTGGGTTTACCCTTCTGAGCAGATGTTCTGGAATGCAATGTTAAAGAAAGG
GTGGAAGTGGAAGGATGAGGATATCAGTCAGAAGGATATGTATAATATCATTAGAATTCACAATCAGAATAACGA
GCAGGCTTGGAAGGAGATTTTGAAGTGGGAAGCCCTTCATGCTGCAGAGTGTCTTGTGGTCCATCATTGATCCG
GTTTGGAGGGAAAGCAAAAGAGTATTACCAAGGGCACGAATTCGTTTCTGGATGGGGTATGAGTTGCCTTTTGA
TAGGCACGATTGGATCATAAACCGTTGCGGGACAGAAAGTTAGATATGTGATTGATTATTATGATGGTGGTGAAGT
CAACAAGGACTACCAGTTTACCATCCTGGACGTCCGTCCCTGCTTAGATTCACTTTCGGCAGTATGGGACAGAAT
GAAAGTCGCTTGGTGGCGTTGGACCTCGTTAAAGCACTGTTTCAGATGGAAAAATATAAACTATTTTTTTCTGAGC
GATACATTAAACTATTTTCCCCAGAAAAAAAAAAAAA

6638/6881

FIGURE 6127

MGLSPSAPAVAVQASNASASPPSGCPMHEGKMKGCPVNTEPSGPTCEKKTYSVPAHQERAYEYVECPTRGTAAEN
KENLDPSNLMPPPNQTPAPDQPFALSTVREESSIPRADSEKKWVYPSEQMFWNAMLKKGWKKWDEDISQKDMYNI
IRIHNQNNQAWKEILKWEALHAAECPCGPSLIRFGGKAKEYSPRARIRSWMGYELPFDRHDWIINRCGTEVRYV
IDYYDGGEVNKDYQFTILDVRPALDSL SAVWDRMKVAWWRWTS

6639/6881
FIGURE 6128

GAGATCTGATGGTTTTATAAAGAGGAGTTCCCCTGCACAAGCTCCCTCTCTTGCCTGCCACCATGTAAGAAGTCC
CTTTGGTCTTCCTTTGTCTTCTGCCGTGATTGTGAGGCCTCCCCAGCCATGTGGAAC TTATAAAATAATAAGATG
GCTGATCCTGCAAAGAGGCGCGGTGACATCAACAGTGACTCAGTCTCTATGATGGTATTAGTAACTGGCAGCTGA
CTCTCCTATTTATCATCAAGTTATGTTCCAAATAAGACTTTCAAGTCTGAGAAAAATGACAAATCCCTTCCAGGC
ATGGTTCAAGTTAAAGCTGAAACTGTGTCTTCGTTTCAGCTCAAGAGAGGTTTTGATTGTGTCTGTGGCTTTTCCT
TGTGTATTGGTTGAGGAACTGTGCCTTGGAGGGGCGGGGAGTCTTGAGAAATGGGTCAACTGATGGAGGGGGAGTG
GAAGACATTGGTTGCCCAAGAAAATATGTCAACATCTGTCCATCACTGCAACTCCGGCCTGATTATCATTTTTTC
TGCTTCTGTAAGCACCAATGAGACAATGCCACTGAACCACATTCTTTGTTGCCTGCAGTATTTCCCACCACTGCG
CCACCTCTGATATGCTAATGAGGAAGCCCAGGGTTTTGTGTGGCTGAAAAGCCTTTCAGGCACAATCAGTGGGTC
AACAATCTCAACTCTGTACAGCGGCTCAGCCTGCTCTGTGAGAGGCTCCTCTTTCGGAGGGGTCCTTCTCACAC
CTTTTCTGTGAGTGCCTGTGTCTTAAGGAAGGGCAATTAACCATCTGGCTGCTTGTCCCCTGGAGAAATTGACA
GAACATCAAACAGAATAAACTCATACCTTGAAAAGTGCCAAGTGGCACATGACTGTCCGGTTCACTGTGGGGA

6640/6881
FIGURE 6129

MFQIRLSSLRKMTNPFQAWFKLKLKLCRFSSREVLIVSWLFLVYWLRNCALEGRGVLRMGQLMEGEWKTLVAQE
NMSTSVHHCNSGLIIIFSASVSTNETMPLNHILCCLQYFPPLRHL

6641/6881
FIGURE 6130

CGGACATCTCCCTGGGAGTCGCGCAGAGTGGAGTCAAAGGCAACCAGTGCTCGCTGCGGTCTCTGGGGATCGGGA
CCGCGGCGGGCGGCCGCGAGCGGGATGTTCCGGGGCTTGAGCAGTTGGTTGGGCTTGCAGCAGCCGGTGGCAGGC
GGTGGGCAGCCCAATGGAGATGCTCCACCCGAGCAGCCGTCCGAGACGGTGGCTGAGTCTGCGGAGGAGGAGCTG
CAGCAAGCGGGAGACCAGGAGCTCCTCCACCAGGCCAAAGACTTCGGCAACTATTTATTTAACTTTGCATCTGCT
GCCACAAAAAGATAACTGAATCAGTTGCTGAAACAGCACAAACAATAAAGAAATCCGTAGAAGAAGGAAAAATA
GATGGCATCATTGACAAGACAATTATAGGAGATTTTCAGAAGGAACAGAAAAAATTTGTTGAAGAGCAACATACA
AAGAAGTCAGAAGCAGCTGTGCCCCATGGGTTGACACTAACGATGAAGAAACAATTCAACAACAAATTTTGGCC
TTATCAGCTGACAAGAGGAATTTCTTCGTGACCCTCCGGCTGGCGTGCAATTTAATTTGCACTTTGATCAGATG
TACCCCGTGGCCCTGGTCATGCTCCAGGAGGATGAGCTGCTAAGCAAGATGAGATTTGCCCTCGTTCTAAACTT
GTGAAGGAAGAAGTGTCTGGAGGAACTACTTTTACCGCGTCTCCCTGATTAAGCAGTCAGCCCAGCTCACGGCC
CTGGCTGCCCCAACAGCAGGCCGCGAGGGAAGGAGGAGAAGAGCAATGGCAGAGAGCAAGATTTGCCGCTGGCAGAG
GCAGTACGGCCCAAAACGCCACCCGTTGTAATCAAATCTCAGCTTAAAACTCAAGAGGATGAGGAAGAAATTTCT
ACTAGCCCAGGTGTTTCTGAGTTTGTGAGTGATGCCTTCGATGCCTGTAACCTAAATCAGGAAGATCTAAGGAAA
GAAATGGAGCAACTAGTGCTTGACAAAAAGCAAGAGGAGACAGCCGTACTGGAAGAGGATTCTGCAGATTGGGAA
AAAGAACTGCAGCAGGAACCTCAAGAATATGAAGTGGTGACAGAATCTGAAAAACGAGATGAAAACCTGGGATAAG
GAAATAGAGAAAATGCTTCAAGAGGAAAATTAGCTGTTCTGAAATAGAAGAATAATCCTTAACAGTCTGCAAC
TGACATTAAATTTCTAGATGTTGACAATTACTGAATCAGAAGGCATGAAAGAGTATAATTTTATGAAATTCAAAT
TATTCTTTTTCAAGTTGAAACTTGCCCTCTTACTTTAAAAAAGTATATAGAACAGTTACTTCTAATAATCAGA
AAGAGATGTTTTATAGAACATTTCTTTAATATAAAGTTAGAGATGTCTTCATAGGCAGTATGGCTATCTTTGCCA
CAGAAACATAAGTAAATTTTAGAGTTCTGTTTTCCATGAGGTCAAAAATATAATTTATTCCTCAGTCATGGTTT
TCTAAATATCTGTACTCCACATTCCATTTTAATTGATATGAGGGTGTTAAAGTACCTACTTAATGGGTTGATTAC
TATCAAAATGACCAAATTATACCAAAGAAGCTTAAGAGGAAGCACTTTCAGAACTATTCAGTTGCCAGGTATTTTC
TAAATTCACCTGAAAGCCAAAAGATAAAATAAATAAGTTGATTTTAATGATATAAGCATCACACAATTTTACA
TTAAGAAATACTGTGCAGGCCATGCGTGGTGGCTCAGGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCA
GATCACCGGAGGTCAGGAGTTCGAGACCAGCCTTGCCAACATAGTGAAACCCTGTCTCTACTAAAAATACAAAA
TTAGCCGGGCATGGTGGCAGGCACCTGTAATCCCAGCTACTAGGGAGGCTTTTGAACCCAGGAGGCAGAGGTTGC
AGCGAGCTGAGATCGCGCCACTGCACTCCAGCCTGGGTGATAGAGTGAGATTCAGTCTC

6642/6881

FIGURE 6131

ATGGAGAAAAACAAAACAAGAAGAAAGTGGAGGAGGTGCTAGAAGAGGAGGAACAGGAATATGTGGTGGAAAAA
GTTCTCTACCGTCGATTGCCCCGCCCCCATATCCCCCTCCTTCTGCCAACTTTATCACTTAAGACAGACTGCCTG
GGTCACCCTGTTTATGACAATAGAAGAATAAGGAAAGAACACTCTTCCCCTGCTCAAATCCTCCAATGTACCTGC
CGTACCCACGGECATGACAGACGGCACTGCTCGTTCCCATGCTCTGCTGCAAAGGTGGGCCTGGCAGCCTTGTGT
GGGCACCATGACCCACCTCACACCTGGCGTCACCTGAGTGGGAGAAAGGAGAGCCAACCCAAGGAGAAGAAAGAA
GGGTCGGAAGGCCCCGAGGCTTTGTTTCAGGTTTGAAGCCGGAACCAGATTATTGGAGCTACAGACCTCCAGTG
GGAGAGCTCATGTTTCCTGATGAAAGGGAAAAATTTTGATGAGGCTGACCTCGTCCCTGCCAAGGAAGTCAATGTC
AAATGCCACGCGTTGTCATATCCTTCTATGAGGAAAGGCTGACGTGGCATTCTACCCCAAAGAGGATGATGAC
AAGAATTAA

6643/6881

FIGURE 6132

TGTTTGAAGATACTGTGGAGGAGCGTGTCATCAATGAAGAATATAAAAATCTGGAAGAAGAATACACCGTTTCTAT
ATGACCTGGTTATGACCCATGCTCTTCAGTGGCCAGTCTTACCGTTCAGTGGCTTCCTGAAGTGACTAAACCTG
AAGGAAAAGATTATGCCCTTCATTGGCTAGTGCTGGGGACTCATACGTCTGATGAGCAGAATCATCTGGTGGTTG
CTCGAGTACATATTCCCAATGATGATGCACAGTTTGTATGCTTCCCATTGTGACAGTGACAAGGGTGAATTTGGTG
GCTTTGGTTCTGTAACAGGAAAAATTGAATGTGAAATTAATAATCAATCACGAAGGAGAAGTAAACCGTGCTCGTT
ACATGCCGCAGAATCCTCACATCATTGCTACAAAAACACCATCTTCTGATGTGTTGGTTTTTGAATAACAAAC
ACCCTGCTAAACCAGACCCAAGTGGAGAATGTAATCCTGATCTCAGATTAAGAGGTCACCAGAAGGAAGGCTATG
GTCTCTCCTGGAATTCAAATTTGAGTGGACATCTCCTAAGTGCATCTGATGACCATACTGTTTGTCTGTGGGATA
TAAACGCAGGACCAAAAGAAGGCAAAATTGTGGATGCTAAAGCCATCTTTACTGGCCACTCAGCTGTTGTAGAGG
ATGTGGCCTGGCACCTGCTGCACGAGTCATTGTTTGGATCTGTTGCTGATGATCAGAACTTATGATATGGGACA
CCAGGTCCAATACCACCTCCAAGCCGAGTCACTTGGTGGATGCGCACACTGCCGAAGTCAACTGCCTCTCATTCA
ATCCCTACAGCGAATTTATTCTAGCCACCGGTCTGCGGATAAGACCGTAGCTTTATGGGATCTGCGTAACTTAAA
ATTAAGTCCATACCTTCGAATCTCATAAAGATGAAATTTTCCAGGTCCACTGGTCTCCACATAATGAACTAT
TCTGGCTTCAAGTGGTACTGACCGCCGCTGAATGTGTGGGATTTAAGTAAAATTGGGGAAGAACAATCAGCAGA
AGATGCAGAAGATGGGCCTCCAGAACTCCTGTTTATTCATGGAGGACACACTGCTAAGATTTAGATTTTAGCTG
GAACCCCAATGAGCCTTGGGTCAATTTGCTCAGTGTCTGAGGATAACATCATGCAGATATGGCAAATGGCTGAAAA
TATTTACAATGATGAAGAGTCAGATGTACGACATCCGAAGTGGAGGGACAAGGATCTTAAACCCAAAGTACGAG
AAATGTTTCTGTTGAATGTAATGCTACATGAATGCTTGATTATCAAGCGCCAAAAAGGCATTGTATAGTAGGAA
ATGTAAGTGGGGTGGCTTATGGCTTCTTTATCCTCTGATTCTAGCACTTTCAAGTGAGCTGTTGCGTACTGTATC
ATATTGTAGCTATTAGGGAAGAGAAGAATGTTGCTTAAGAAAGAACATCACCATTGATTTTAAATACAAGTAGCA
GGGTATTGCCTTTGATTCAACTGTTTTAAGTCCTCATTCTCTCAAACCTAAGTGCTTGCTGTTCCCAAATATGCAA
GAATAACTTTTACACTTTTTCTTCCAACACTTCTTGATTGGCTTTCAGAAATAAAGTTTTAAAT

6644/6881

FIGURE 6133

MTHALQWPSTLVQWLPEVTKPEGKDYALHWLVLGTHTSDEQNHLVVARVHIPNDDAQFDASHCDSDKGEFGGFGS
VTGKIECEIKINHEGEVNRARYMPQNPHEIATKTPSSDVLVFDYTKHPAKPDPSGECNPDLRLRGHQKEGYGLSW
NSNLSGHLLSASDDHTVCLWDINAGPKEGKIVDAKAIFTGHSVVEDVAWHLLHESLFGSVADDQKLMIWDTRSN
TTSKPShLVDAHTAEVNCLSFNPYSEFILATGLRIRP

6645/6881
FIGURE 6134

ATCACTGGTCTCGCGTGCGCGTGACCAGGCCCGGTTTTCCGGTGCCAGGACCTTTCCGAAGCGTCGAGTGGCCTAA
CGGTCACAGCTGTCGCCCATCGGAGAGGCAGGACTACTGCGAGCAGTTTTTACCGCGACCTCCGGAGGCCGGCGTG
ACAGGCTCTGTCACTAAAAATAGGAACCGAATATTGTATCTGACGCATCCTGTAATACTGAAGAGCAACTGAAGAC
AGTTGATGATGTCCTTATTCATTGCCAGGTTATATATGATGCTCTGCAAAACCTGGATAAGAAGATTGATGTGAT
TCGTAGAAAGGTTTTCAAAAATCCAACGTTTCCATGCGAGATCCCTGTGGACAAATCATAAGCGATATGGATATAA
AAAGCATTCTTACCGGCTTGTTAAAAAGCTTAAACTCCAGAAAATGAAGAAAAATGAGGTTTACGAGACATTCTC
CTACCCTGAAAGTTACAGCCCCACTTTACCAGTGTCAAGGCGTGAGAATAATTCCCCGAGCAACCTTCCAAGGCC
ATCCTTTTGCATGGAAGAATACCAGCGAGCTGAGCTGGAGGAGGACCCGATCCTCAGCCGCACTCCGAGTCCAGT
GCATCCCTCAGATTTCTCTGAGCATAATTGTTCAGCCGTATTATGCATCTGATGGTGCAACGTATGGTTCTTCTTC
AGGGCTCTGCCTTGGCAACCCTCGGGCTGACAGCATCCACAACACTTACTCAACTGACCATGCTTCTGCAGCACC
ACCTTCAGTTACAAGGTCACCAGTTGAAAATGACGGTTACATAGAGGAAGGAAGCATCACTAAGCACCCTTCAAC
CTGGTCGGTGGAAAGCAGTGGTCTATTTCTAAAAACAAACAGATCCTCTTGCAATTATGCCCTCTTGTCGACCTCTT
CAGAAGCCATGAAATTGACGGGAAGGCTCTGCTCCTACTCACGAGTGACGTGTTGCTGAAGCACTTGGGGGTGAA
GCTGGGAACGGCTGTGAAGCTATGCTACTACATTGACCGACTTAAACAAGGAAAATGCTTTGAAAATTGAAAAAA
TCCTTGTCGAAATTTAGATTGGGCCAAGCTTCTAGAGGCACCAATGCCCTTCTTAGTGTTGAATCATTTTTCTGCC
TTTAGTCGTTTTTTGTTTTGTAGAAAGTATCTCTCAAAATATATTATAGCTAGAATTGTAGAACTATGTTATAGTC
CAGTCTACTTCTTTAAAAACCATTTAAACTGCTAGATAGTATTAGAATAGTCCAATAGAAAATTCATTCTTTATA
GGTCTTTAAAAATTACTTTTATTATATTGTTTACAAATATATTTTCATGCAAGAAACAGAAAAAACCCT
TTGATTCTGGTTTCATCTCGATACAGAGAACCAAAACAGCTAAGAGAGGTATTATCAGGGTTGACAACCTCCTATGA
TTGAATCTATGGGAATTATTCCTCAGAAGAGAATTTAAAGGTGTACCCATATATATCTCTTTCTGGAGTATTTTA
TCTGTCTGATGTTGCAGTATTCTACAAGTTTCCAGAAAGAGAATAGCCATATAAATTATTTTCTCTTCTGCTATT
ATTTCTCTATATGTTTTATTATTAGATTAGAGTAAAAATAAGCATATAAACTTTTATTATGTGCTCTTAAC
AGTTTTAAGATAAACTATAGGATAGATAGAATGGTTATTTATGCAAGAAATATTGTACCGCAAGGGTGGTTTGG
ATGAAGTCTGACTACTTTTTTTCAAACAACTATTATATTAACCTGTCATATTTTGGCTAAGTTTGGACCTATA
ACTACACTTTTCATTGTTTGCATCTCTCTATGAAGATACGTCTGTCCAACTTTTAAAGGCATAACTGTATTTTA
TGTGTTTATTCTTTATATAGATAGTATTTTATATTTTATTCTCACCCGAAGTATTCACACAATCTTTTTAAAAA
AATTTGAAATGGCATTTTGTATTGCCACAGAGGTAGGATGAGCCATATATTAGTGAAATGTTTTATTTTGTA
TATAAATGGATTATTTGCCATCATTAGTACCTCTCAACTTACTTTTTAGAGGACAAGAAACAATCTGTAGATTGG
TTTCATACAGGGAAGTTCTCCGTCCTATGCAATGTTTCTAATTAATTTGCTTAATTCTGAGCCATTAATCCTGC
TACACTTTGAATGATACATTAATTCAGACTAATCTTTGGGGGCTTTATTTTGTAAGTTAGAACTTTCAAGGGAAA
CATGTTCAACACTATTATTTTGTATATAAATTTATAACTTTGTTATTACATTGTGTAAACAAATATAAGGTTTACGA
GCTATGAGAATTGGTGCTATCACCATTAGCTATTTGCTGTAATGTCAAGAAAATGTTTACCAGATGCAAGAATGT
ACCTTTTCTTTTGTAGAAAGCCAAATGTACTTTAGACATGAATGCAACTATTTAAAGAATAGCTTCATCAATGTTA
TTCCTTACATGTCATAAGATTCTTACTTAAACTTGGTCTTCTTTCAAATTGTTTGTATGAAGATGCTGTACCCAC
TTGAACAGTCCTCAGGTGTTTACATAAAATACTATGTTTTACAGTTTTCATATTTTAAATATTAATAAGTTAA
TCACAATAGT

6646/6881
FIGURE 6135

MKKNEVYETFSYPESYSPTLPVSRRENNSPSNLPRPSFCMEEYQRAELEEDPILSRTPSPVHP SDFSEHNCQPY Y
ASDGATYGSSSGLCLGNPRADSIHNTYSTDHASAPPSVTRSPVENDGYIEEGSITKHPSTWSVEAVVLFLKQTD
PLALCPLVDLFRSHEIDGKALLLLTSDVLLKHLGVKLGTAVKLCYYIDRLKQGKCFEN

6647/6881

FIGURE 6136

ATGAGCGAGTCGATCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGATGGCACTGAGAAGCGGAGC
TGGGGCAGGCCGCGCAAGCAGCCTCTGGTGAGTCCCAGGACAGCGCTGGGAGGGAGTCAGAAGGAGCCCAGTGAA
GTGCCAAAACCTAAGAGACCTCAGGGCCGACCAAATGGAAGGAAAAACAAGGACGCTGCCAAGACCTGGAAAACC
ACCACAACTCCAGGAAGGAAACCAAGGGGCAGACCCAAAAAACTGGAGAAGGAGGAAGAGGAGGGCATCTCACAG
GAGTCCTCGGAGGAGGAGCAATTGA

6648/6881
FIGURE 6137

MSESISKSSQPLASKQEKDGTEKRSWGRPRKQPLVSPRTALGGSQKEPSEVPKPKRPQGRPNRKNKDAAKTWKT
TTTPGRKPRGRPKKLEKEEEEGLSQESSEEEQ

6649/6881
FIGURE 6138

ACTGAGGCGTGGCGTCTGCTGGGGCACCTGAAGGAGACTTGGGGGCACCCGCGTCTGCTGCCTCCTGGGTGTGAGG
AGTCGCCGCTGCCGCCACTGCCTGTGCTTCATGAGGAAGATGCTCGCCGCCGTCTCCGCGTGCTGTCTGGCGCT
TCTCAGAAGCCGGCAAGCAGAGTGCTGGTAGCATCCCGTAATTTTGCAAATGATGCTACATTTGAAATTAAGAAA
TGTGACCTTCACCGGCTGGAAGAAGGCCCTCCTGTCACAACAGTGCTCACCAGGGAGGATGGGCTCAAATACTAC
AGGATGATGCAGACTGTACGCCGAATGGAGTTGAAAGCAGATCAGCTGTATAAACAGAAAAATTATTCGTGGTTTC
TGTCACCTTGTGTGATGGTCAGGAAGCTTGCTGTGTGGGCCTGGAGGCCGGCATCAACCCACAGACCATCTCATC
ACAGCCTACCGGGCTCACGGCTTTACTTTACCCGGGGCCTTTCCGTCCGAGAAATTCTCGCAGAGCTTACAGGA
CGAAAAGGAGGTTGTGCTAAAGGGAAAGGAGGATCGATGCACATGTATGCCAAGAACTTCTACGGGGGCAATGGC
ATCGTGGGAGCGCAGGTGCCCCCTGGGCGCTGGGATTGCTCTAGCCTGTAAGTATAATGGAAAAGATGAGGTCTGC
CTGACTTTTATATGGCGATGGTGCTGCTAACCAGGGCCAGATATTGGAAGCTTACAACATGGCAGCTTTGTGGAAA
TTACCTTGTATTTTCATCTGTGAGAATAATCGCTATGGAATGGGAACGTCTGTTGAGAGAGCGGCAGCCAGCACT
GATTACTACAAGAGAGGCGATTTTCAATTCCTGGGCTGAGAGTGGATGGAATGGATATCCTGTGCGTCCGAGAGGCA
ACAAGGTTTGCTGCTGCCTATTGTAGATCTGGGAAGGGGCCATCCTGATGGAGCTGCAGACTTACCGTTACCAC
GGACACAGTATGAGTGACCCTGGAGTCAGTTACCGTACACGAGAAGAAATTCAGGAAGTAAGAAGTAAGAGTGAC
CCTATTATGCTTCTCAAGGACAGGATGGTGAACAGCAATCTTGCCAGTGTGGAAGAACTAAAGGAAATTGATGTG
GAAGTGAGGAAGGAGATTGAGGATGCTGCCCAGTTTGCCACGGCCGATCCTGAGCCACCTTTGGAAGAGCTGGGC
TACCACATCTACTCCAGCGACCCACCTTTTGAAGTTCGTGGTGCCAATCAGTGGATCAAGTTTAAGTCAGTCAGT
TAAGGGGAGGAGAAGGAGAGGTTATACCTTCAGGGGGCTACCAGACAGTGTTCTCAACTTGGTAAAGGAGGAAGA
AAACCCAGTCAATGAAATTCAATGAAATTCTTGGAACCTTCATTAAAGTGTGTAGATTGAGCAGGTAGTAATTGC
ATGCAGTTTGTACATTAGTGCATTAAAAGATGAATTATTGAGTGCTT

6650/6881

FIGURE 6139

MRKMLAAVSRVLSGASQKPASRVLVASRNFANDATFEIKKCDLHRLEEGPPVTTVLTREDGLKYYRMMQTVRRME
LKADQLYKQKIIRGFCHLCDGQEACCVGLEAGINPTDHLITAYRAHGFTFTRGLSVREILAEITGRKGGCAKGKG
GSMHMYAKNFYGGNGIVGAQVPLGAGIALACKYNGKDEVCLTLYGDGAANQGQIFEAYNMAALWKLPCIFICENN
RYGMGTSVERAAASTDYYKRGDFIPGLRVDGMDILCVREATRFAAAYCRSGKGPILMELQTYRYHGHSMSDPGVS
YRTREEIQEVRSKSDPIMLLKDRMVNSNLASVEELKEIDVEVRKEIEDAAQFATADPEPPLEELGYHIYSSDPPF
EVRGANQWIKFKSVS

6651/6881
FIGURE 6140

GGGCGCAGCACACTCCCAGCCGGCCGCAGCCTGACACGCCGCGCGGCCCCCAGTCTCCCGCGGCTGCTCCCCCA
GGCATGGCACAGGGCCTCGCCTCACTATGGCAGCAGCACGGCACAGCACGCTCGACTTCATGCTCGGCGCCAAAG
CTGATGGTGAGACCATTCTAAAAGGCCTCCAGTCCATTTTCCAGGAGCAGGGGATGGCGGAGTCGGTGACACCT
GGCAGGACCATGGCTATTTAGCAACCTACACAAACAAGAACGGCAGCTTTGCCAATTTGAGAATTTACCCACATG
GATTGGTGTGCTGGACCTTCAGAGTTATGATGGTGATGCGCAAGGCAAAGAAGAGATCGACAGTATTTTGAACA
AAGTAGAGGAAAGAATGAAAGAATTGAGTCAGGACAGTACTGGGCGGGTGAAACGATTACCACCCATAGTGCGAG
GAGGAGCCATCGACAGATACTGGCCACC GCCGACGGGCGCCTGGTTGAATATGACATAGATGAAGTGGTATATG
ACGAAGATTACCTTATCAAAATATAAAAATTCTACACTCGAAGCAGTTTGGAATATTCTCATCCTTAGTGGGG
ATGTTAATTTGGCAGAGAGTGATTTGGCATATACCCGGGCCATCATGGGCAGTGGCAAAGAAGATTACACTGGCA
AAGATGTACTCATTCTGGGAGGTGGAGACGGAGGCATATTGTGTGAAATAGTCAAATAAAACCAAAGATGGTCA
CTATGGTAGAGATTGACCAAATGGTGATTGATGGGTGTAAGAAATACATGCGAAAAACGTGTGGCGATGTCTTAG
ACAATCTTAAAGGAGACTGCTATCAGGTTCTAATAGAAGACTGTATCCCGGTACTGAAGAGGTACGCCAAAGAAG
GGAGAGAATTTGATTATGTGATTAATGATTTGACAGCTGTTCCAATCTCCACGTCTCCAGAAGAAGATTCCACAT
GGGAGTTTCTCAGACTGATTCTTGACCTCTCAATGAAAGTGTTGAAACAGGATGGGAAATATTTTACACAGGGGA
ACTGTGTCAATCTGACAGAAGCACTGTGCTCTATGAAGAACAGCTGGGGCGCCTGTATTGTCTGTGGAATTTT
CAAAGGAGATCGTCTGTGTCCCTTCATACTTGGAATTGTGGGTATTTTACACTGTTTGGAAGAAAGCTAAACCCT
GAAGATCAGTAGCCCCTAATCACATGTGCTGCAAATAGCCTTCCTGACCTCCATATGCTGTACATGACATCAAAA
TGAGTCAGGCAATTGATTGTGAATTCCTTAAAGTTTTCTTTTTTTAATAATTATTTTAAATTTAAAAAGCAAA
TGGAAATGTATATTTTGATGAGCTTAGGGTGTTTTTTTTTTGAAAGTCAGCTGAAGGATGGTTAGACAGCACAG
CGAAGACTGCTAAATGCACTGACCCCCCATTAGAATGTGATTTTTGTTCTTTTTATTCTCTGTGGGCTTTT
GTTTTTGTGTTTTGTTTTGGTAGATCTTCAATTTGGATATTTGGAGGAGTGAACATCGTTGTTTTGCTGGAGGGAA
GATCTTGATGGTGTTTCTTTCCCCAAAAATTGACTTAGATATTAAAATTTGGTGCTTATAAGAGAGAGTTAAAAA
AAAATAGGATTGCTTCAATTAAATTAACAAAAGAGACAAAAA

6652/6881
FIGURE 6141

MAAARHSTLDFMLGAKADGETILKGLQSIHQEQGMAESVHTWQDHGYLATYTNKNGSFANLRIYPHGLVLLDLQS
YDGAQGGKEEIDSILNKVEERMKELSQDSTGRVKRLPPIVRGGAIDRYWPTADGRLVEYDIDEVVYDEDSFYQNI
KILHSKQFGNIIILSGDVNLAESDLAYTRAIMGSGKEDYTGKDVILGGGDGGILCEIVKLKPKMVTMVEIDQMV
IDGCKKYMRTCTGVDLDNLKGDCYQVLIEDCIPVLKRYAKEGREFDYVINDLTAVPISTSPPEEDSTWEFLRLILD
LSMKVLKQDGKYFTQGNVCNLTALSLYEEQLGRLYCPVEFSKEIVCVPSYLELWVFYTVWKKAKP

6653/6881
FIGURE 6142

GTCAGCCAGTCAGTCCGCCAGTCCGCCAGCCAGTACCTCTCTCTCCTCGGCCCTCGTAAGCTGTCCGCGGTCTG
TTTGGCCCCGAACGGCGGCGGAGGCGCTGATCATGGCGACATTTCATCTCGGTGCAGCTGAAAAAGACCTCAGAGGT
GGACCTGGCCAAGCCGCTGGTGAAGTTCATCCAGCAGACTTACCCAAGCGCGGGGAAGAGCAGGCCCAGTACTG
CCGCGCGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGCGAGTCGGTCTCGTCCGCTGGACAAGCACGAGGGCGCGCT
CGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGAACCCAAAATTTCCATTTTCTGAAAATCAGATCTG
CTTGACATTTACCTGGAAGGATGCTTTCGATAAAGGTTCACTTTTGGAGGCTCTGTAAACTGGCTCTTGCAAG
CTTAGGATATGAAAAGAGCTGTGTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAAATTGCAGCAGAACAGAACCT
GGATAATGATGAAGGATTGAAAATCGCTGCTAAACATTACCAGTTTGCTAGTGGTGCCTTTTACATATTAAAGA
GACGGTTTTATCTGCCCTTAAGTCGAGAGCCGACCGTGGACATATCTCCAGATACTGTTGGGACCCTCAGTCTTAT
TATGCTGGCACAGGCTCAAGAAGTATTTTTTTTTAAAGCCACAAGAGATAAAATGAAAGATGCCATCATAGCTAA
ATTGGCTAATCAGGCTGCAGATTATTTTGGTGATGCTTTCAAACAGTGTCAATACAAAAGATACTCTCCCAAGGA
GGTGTTCCTGTCTTGGCTGCAAAGCACTGTATCATGCAGGCCAATGCTGAGTACCATCAGTCTATCCTGGCAAA
ACAGCAGAAGAAAATTGGAGAAGAAAATTGCAAGGTTACAGCATGCAGCAGAACTGATTAAACAGTGGCATCTCG
CTATGATGAATATGTTAATGTGAAGGATTTTTCTGACAAAATCAATCGTGCCCTTGCTGCAGCAAAGAAGGATAA
TGACTTCATTTATCATGATCGAGTTCAGACCTTAAAGATCTAGATCCTATTGGCAAAGCCACACTTGTGAAATC
TACCCCGGTCAATGTACCCATCAGTCAGAAATTTACTGATCTGTTTGAGAAGATGGTTCCCGTGTCTAGTACAGCA
GTCTTTGGCTGCCATAATCAGAGGAAAGCCGATTTGGTTAACAGATCAATTGCTCAGATGAGAGAAGCCACCAC
TTTGGCAAATGGGGTGCTAGCTTCCCTTAATCTTCCAGCAGCAATTGAAGATGTGTCTGGAGACACTGTACCTCA
GTCTATATTGACTAAATCCAGATCTGTGATTGAACAGGGAGGCATCCAGACTGTTGATCAGTTGATTAAAGAACT
GCCTGAATTACTGCAACGAAATAGAGAAATCCTAGATGAGTCATTAAGGTTGTTGGATGAAGAAGAAGCAACCGA
TAATGATTTAAGAGCAAAATTTAAGGAACGTTGGCAAAGGACACCATCCAATGAACTGTATAAGCCTTTAAGAGC
AGAGGGAACCAACTTCAGAACAGTTTTAGATAAAGCTGTGCAGGCAGATGGACAAGTGAAAGAATGTTACCAGTC
TCATCGTGACACCATCGTGCTTTTGTTAAGCCAGAGCCTGAGCTGAATGCTGCCATCCCTTCTGCTAATCCAGC
AAAGACCATGCAGGGCAGTGAGGTTGTAAATGTCTTAAATCCTTATTGTCAAATCTTGATGAAGTAAAGAAGGA
AAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATTTTGACATGACAAGCAAGTTTTTGACAGCCCTGGCTCA
AGATGGTGTGATAAATGAAGAAGCTCTTTCTGTTACTGAACTAGATCGAGTCTATGGAGGTCTTACAACATAAGT
CCAAGAATCTCTAAAGAAACAGGAGGGACTTCTTAAAAATATTTCAGGTCTCACATCAGGAATTTTCAAAAATGAA
ACAATCTAATAATGAAGCTAACTTAAGAGAAGAAGTTTTGAAGAATTTAGCTACTGCATATGACAACCTTTGTTGA
ACTTGTAGCTAATTTGAAGGAAGGCACAAAGTTTTACAATGAGTTGACTGAAATCCTGGTCAAGTTCCAGAACAA
ATGCAGTGATATAGTTTTTGCACGGAAGACAGAAAGAGATGAACTCTTAAAGGACTTGCAACAAAGCATTGCCAG
AGAACCTAGTGCTCGTACAATTCCTACACCTGCGTATCAGTCCTCACCAGCAGGAGGACATGCACCACTCCTCCA
ACTCCAGCGCCAAGAACCATGCCGCCTACTAAGCCCCAGCCCCCAGCCAGGCXTCCACCACCTGTGTTTCCAGCA
AATCGAGCTCCTTCTGCTACTGCTCCATCTCCAGTGGGGGCTGGGACTGCTGCGCCAGCTCCATCACAACGCCT
GGCTCAGCTCCTCCTCCACAGGCGCAGGGACCACCCTATTXCCCCCTATCCAGGATATCCTGGGTATTGCCAAAT
GCCCATGCCCATGGGCTATAATCCTTATGCGTATGGCCAGTATAATATGCCATATCCACCAGTGTATCACCAGAG
TCCTGGACAGGCTCCATACCCGGGACCCCAGCAGCCTTCATACCCCTTCCCTCAGCCCCCACAGCAGTCTTACTA
TCCACAGCAGTAATATGTCTGCTCAGCAGCTCAGCTGATTGAGATCAGAGGGAAAGAAATACCAACCTGCAATA
AGTGTACTAAACTCTACGCTCTGGTTAATGTAATGTACTCTCCTGGACTGAATGCAGTGTATAATTTCTGTCTAC
AGCTAGAAGCTGTGCCCCAGTTCCACATTTGATTACACATGTGAGATTTGCTGCTGTTGCAGTATAAACACTAGG
TATAATAGGATTTGAAATTGCATTACAGTTCATAAAAATTGAAAATGAGAAATTAAACCTGCAAGTGAAACATTT
GAAACGATTATACTTTCTACATAAGACATGGTTGGGACATCAGATACTTACAAAGATGGTTTTAAGTATGGATACT
AGAGAAAATTAAGTTTTCTTTCTTTGGTTTATTGATTGGTTTTAATTTCCATTATGCTATTTTGCATAATCAA
GGCACTGTAAATCTTATAATTTTAAATAAAATTACTTAAGAACAGTTGTCATTGTTATGTTTTGTTATTGATTCT
CATTACTGTCTAATTTTTTTTTCTGGTATTAGTCTCATTTTGTATGTATATAAGTTAAACAGATACTGTTTTAAG
TGCATGAATAGTACAAGTTATTATCAAGGATGTTTTACAGGGAATCAAAGAATATTATCATACTTTATCTTTC
GTATGCTGATTAGTAAACGATTTTTGACATTTATTTTAGAAAGTCCTATAATGTGGAAGAAACAAACAGTTGCTA
CCAAAGATTCTTCAAATAAACATACAAATAAATGTGTATATTTAATGTTTTATTGTTAGCTTCTCCAGAAAATTG
ATGCAAATCTGGTAATAATTCTTGCATTTTTTCCCAATAACCTGGTTAAATAGAAATACGCCAT

6654/6881
FIGURE 6143

TTTCCTTCCTCTTTTGGCAACATGGCGGGCGGAGAAGCTGGAGTGACTCTAGGGCAGCCGCATCTTTCGCGTCAG
GATCTCACCACCTTGGATGTTACCAAGTTGACGCCACTTTCACACGAAGTTATCAGCAGACAAGCCACAATTAAC
ATAGGTACAATTGGTCATGTAGCTCATGGGAAATCCACAGTCGTCAAAGCTATTTCTGGAGTTTCATACTGTCAGG
TTCAAAAATGAAGTAGAAAGAAATATTACAATCAAGCTTGGATATGCTAATGCTAAGATTTATAAGCTTGATGAC
CCAAGTTGCCCTCGGCCAGAATGTTATAGATCTTGTGGGAGCAGTACACCTGACGAGTTTCTACGGACATTCCA
GGGACCAAAGGGAACCTTCAAATTAGTCAGACATGTTTCCTTTGTTGACTGTCCTGGCCACGATATTTTGATGGCT
ACTATGCTGAACGGTGCAGCAGTGATGGATGCAGCTCTTCTGTTGATAGCTGGTAATGAATCTTGCCCTCAGCCT
CAGACATCGGAACACCTGGCTGCTATAGAGATCATGAACTGAAGCATATTTTGATTCTACAAAATAAAATTGAT
TTGGTAAAAGAAAGTCAGGCTAAAGAACAATACGAGCAGATCCTTGCAATTTGTCCAAGGTACAGTAGCAGAGGGA
GCTCCCATTTTCCAATTTTCAGCTCAGCTGAAATACAATATTGAAGTTGTTTGTGAGTACATAGTAAAGAAAATT
CCAGTACCCCCAAGAGACTTTTACTTCAGAGCCCCGGCTTATTGTTATTAGATCTTTTGATGTCAACAAACCTGGC
TGTGAAGTTGATGACCTTAAGGGAGGTGTAGCTGGTGGTAGTATCCTAAAAGGAGTATTAAAGGTGGGCCAGGAG
ATAGAAGTAAGACCTGGTATTGTTTCCAAAGATAGTGAAGGAAAACCTCATGTGTAAACCAATCTTTTCCAAAATT
GTATCACTTTTTTTCGGAGCATAATGATCTGCAATATGCTGCTCCAGGCGGTCTTATTGGAGTTGGAACAAAAATT
GACCCCACTTTTGTGCCGGGCTGACAGAATGGTGGGGCAAGTACTTGGTGCAGTCGGAGCTTTACCTGAGATATTC
ACAGAATTGGAAATTTTCTATTTCTGCTTAGACGGCTTCTAGGTGTACGCACTGAAGGAGACAAGAAAGCAGCA
AAGGTTCAAAAGCTGTCTAAGAATGAAGTGCTCATGGTGAACATAGGATCCCTGTCAACAGGAGGGAGAGTTAGT
GCTGTCAAGGCCGATTTGGGTAAAATTGTTTTGACCAATCCAGTGTGCACAGAGGTAGGAGAAAAAATTGCCCTT
AGCCGAAGAGTTGAAAAACACTGGCGTTTAAATTGGTTGGGGTCAGATAAGAAGAGGAGTGACAATCAAGCCAACA
GTAGATGATGACTGAAGAATAACAGTTAAATAATACATTCGGATGGATTGGAAGTTGGAATTCCTCTTAACAAC
CAAGGGGTTTATTTTCAAAGCAATATTGGGGAATTGATTTACAGTTTCGTTACCTTAGTAGGTAACGGTAAGGTT
ATTCTCTTTTTTTTTTTTTTTGGTTATGAAAACCTAGGGACTAAAATTAATATAAAAATTGGCATAATGTTGGAT
TGAATCTACATTTTGGCAGAAGTTAAACATTCCACATAATGTCAAAATTATACATCATGCAGTTCTGTTTTTTT
GTTTGTTTAATTTTGTTTTGTTTTGTAGTCTGGCTCTGTCACCCAGGCTGGAGTGCAGTGGCGTGATCTGCAACC
TCTGCCCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGATTACAGGTGCGCGCCACCACA
CTTGGCTAATTTTTGTATTATTAGTAGAGACGGGGTTTCAGCATGTTGGCTAGGCCGGTCTCTCCTGACCTCAGG
GTGATCAGCCCACCTCGGCCTCACAAAGTGCTGGGATTACAGGCGTGAGCCACCTTGCCCAGCCACATCATACA
GTTTGAATGAACTTTGCCACAACCAGCCTTTGCTGTAGCACACACATATACTGAACCTGTTTGAAATAAA
GTTTTTTTTCTTTTTCATGATTCTGCTTTTGTAGTACCTCCAGGCTGAAAGACTGTTGTACCAGTAAAACTTAAAG
GCACAAATTCCTTGAAGACCTTCTCCCTTTTATGTGGCCCCATATTTTATGTTGCTTTATCTTTGAAATTTTG
CATGAAAAGGAAATGAATGGATTGCAATGAAATTGTCCTTTAGAGCATGATTACTTGTTCCTATGGACAAATATT
TTTCTCCCCTTGCTCTTCTGCGCTGAAACACGGGAAACCAGAGTCAAAAGTTATCTCCCTCTCCCTGTGATGCC
TTGAGATTTTTTCTGCGTTGTTTAAATGCCTGAAATCCAAGTCTTCTCCATGGGAAAATACTGTTATACCAAT
AATTCTAGATGAGTAACAAAGATCTTTTTAGGCCTTCATTTTATGTTTTTCTTAACTGTTATATTATGATTGTG
ACATAGATTATACTACTACTAATTTTTGGATGTTTCAAAAGGTCAAGAAGTAAAAGATGTTAGAAAGCAAAAAA
AAAAAAAAAAAAAAAAAAAA

6655/6881
FIGURE 6144

MAGGEAGVTILGQPHLSRQDLTTLDVTKLTPLSHEVISRQATINIGTIGHVAHGKSTVVK AISGVHTVRFKNELER
NITIKLGYANAKIYKLDDPSCPRPECYRSCGSSTPDEFPTDIPGTKGNFKLVRHVSFVDCPGHDILMATMLNGAA
VMDAALLLIAGNESCPQPQTSEHLAAIEIMKLKHILILQNKIDLVKESQAKEQYEQILAFVQGTVAEGAPIIPIS
AQLKYNIEVVCEYIVKKIPVPPRDFTSEPRLIVIRSFVDVNKPGCEVDDLKGGVAGGSILKGVLKVGQEIEVRPGI
VSKDSEGKLMCKPIFSKIVSLFAEHNDLQYAAPGGLIGVGTKIDPTLCRADRMVGQVLGAVGALPEIFTELEISY
FLLRRLLGVRTEGDKKAAKVQKLSKNEVLMVNIGSLSTGGRVSAVKADLGKIVLTNPVCTEVGEKIALSRRVEKH
WRLIGWGQIRRGVTIKPTVDDD

6656/6881
FIGURE 6145

CTCTCTCCGGTCTGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGGCCAC
GTGCAGCCTATTCGCTGCACTAAATGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTCTGA
AACATAGTGGAGGCCGAGCAATCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCCGC
AAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

6657/6881
FIGURE 6146

CTCTTTCTGCTGCTCCCCAGCTCTCGGATACAGCCGACACCATGGGTTTCAGAGACCTGAAAAGCCCCGCCGGCC
TCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAG
TATTTGAAGCCGTGTCCAGCCCCTGCCTGCCGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCTT
ACGAAAAGGAAAAGGCCAGCCTGCCAGGAGTGAAGAAAGCTTTGGGCAAGTATGGTCCTGCCGATGTGGAAGACA
CTACAGGAAGTGGAGCTACAGATAGTAAAGATGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAA
GTGAAGAAGCAAAGAGGCTAAGGGAAGAACGTCTTGCACAATATGAATCAAAGAAAGCCAATGATGAGACAGATA
TGGCGAAATTAGAGGAGCGCGTCAGAAGCATTCAAGCAGACGGCTTAGTCTGGGGCTCATCTAAACTAGTTCCAG
TGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTGAAGATGATAAAGTCGGAACAGATATGCTGGAGG
AGCAGATCACTGCTTTTGAGGACTACGTGCAGTCCATGGATGTGGCTGCTTTCAACAAGATCTAAAATCCATCCT
GGATCATG

6658/6881
FIGURE 6147

ATCCTGACTTCCGCTTTGGAGGCGAGGACCCGAGCGAGTGTAGGGGGTGCGGCGTCTGGTCAGCCAGGGGTGAAT
TCTCAGGACTGGTCGGCAGTCAAGCCATC**ATG**CCTCGTGGTCAGAAGAGTAAGCTCCGTGCCCCGTGAGAAACGCC
GCAAGGCCCCGAGATGAGACCCGGGGTCTCAATGTTCTCAGGTCACTGAAGCAGAGGAAGAAGAGGCCCCCTGCT
GTTCTCTTCTGTTTCTGGGGGTGCTGCTTCAAGCTCTCCTGCTGCTGGCATTCCCCAGAAGCCTCAGAGAGCCC
CAACCACTGCCGCTGCTGCGGCTGCGGGTGTTCATCCACAAAATCTAAAAAAGGTGCCAAGAGCCACCAAGGTG
AGAAAAATGCAAGTTCTCTCCAGGCCTCAACATCCACTAAGAGCCCAAGCGAAGATCCTCTAACCAGGAAGTCAG
GGTCGTTGGTGCAGTTCTGTTGTACAAGTATAAAATAAAAAAGTCCGTTACAAAGGGAGAAATGCTGAAAATTG
TTGGCAAAGGTTTCAGGGAGCACTTCCCTGAGATCCTCAAGAAAGCCTCTGAGGGCCTCAGTGTTGTCTTTGGCC
TTGAGCTGAATAAAGTCAACCCCAACGGCCACACTTACACCTTCATCGACAAGGTAGACCTCACTGATGAGGAAT
CCCTGCTCAGTTCTTGGGACTTTCCAGGAGAAAGCTTCTGATGCCTCTCCTGGGTGTGATCTTCTTAAATGGCA
ACTCAGCTACTGAGGAAGAGATCTGGGAATTCTGAATATGTTGGGAGTCTATGATGGAGAGGAGCACTCAGTCT
TTGGGGAACCCTGGAAGCTCATCACCAAGATCTGGTGCAGGAAAAATATCTGGAGTACAAGCAGGTGCCAGCA
GTGATCCCCCACGCTTTCATTCCTGTGGGGTCCGAGAGCCTATGCTGAAACCAGCAAGATGAAAGTCCTGGAGT
TTTTGGCCAAGGTAAATGGTACCACCCCTGTGCCTTCCCAACCCATTACGAAGAAGCTTTGAAAGATGAAGAGA
AAGCCGGAGTCT**AG**AGCCAGAGTTGTAGCCAGGCCTTGCACTACTGCCATAGCCAATCAATCTCCCAAAGCCAAGT
TTACCTGCTGTTCTCACCCCAATGAGGTCTTAGGCAGATTCTTTACTTTGTAATTCAAAAGGCCTGTTAACCTT
TGTTCTTGTTATGCATGAATAACTTGTGACTTTTTTTTTTCTCTTTTCACTAGTGTTTCAACAGGTTTATT
TAGATTCAGAATGTAAATTTACAAATGATATAGATCACCTGTTATTGCTGTTTTTCAGGGACAGTAGAAAGTGT
TTTGTTTTTTGAGTGAAACAACTTATTAATAAAAAATCCTTAAATCACTTTTGTAATCCAGGACAAGAAAATGTGG
CATTAGAGTAGAAATATCTTTGGAAATGTGAAAGACCCCATAGTGAAATATTTGGGATCAGAAGCCAGAGGTGTA
AAAGTGGTCAATTCCTGGTTTACTTCATTTAATCTTTCTTTTCATAAAGATACATACCTGGATTTGTTTATGTTA
TTCAAGAATGTGTGAGAAATTAAACCATAGTTAGTTAA

6659/6881
FIGURE 6148

MPRGQKSKLRAREKRRRKARDETRGLNVPQVTEAAAAAPCCSSSVSGGAASSSPAAGIPQKPQRAPTTAAAAAG
VSSTKSKKGAKSHQGEKNASSSQASTSTKSPSEDPLTRKSGSLVQFLLYKYKIKKSVTKGEMLKIVGKRFRHF
EILKKASEGLSVVFGLELNKVNPNNGHTYTFIDKVDLTDEESLLSSWDFPRRKLMLPGLVIFLNGNSATEEEIWE
FLNMLGVYDGEHVSFGEPPWKLI TKDLVQEKYLEYKQVPSSDPPRFQFLWGPRAYAETSKMKVLEFLAKVNGTTP
CAFPTHYEEALKDEEKAGV

6660/6881
FIGURE 6149

CTCCTCTAGGCCGCGCGGCCGGAAGCGCTGAGTCACGGTGAGGCGACTGGACCCACACTCTCTTAACCTGCCCTC
CCTGCACTCGCTCCCGGCGGCTCTTCGCGTCACCCCGCCGCTAAGGCTCCAGGTGCCGCTACCGCAGCGTGAGT
ACCTGGGGCTCCTGCAGGGGTCCACTAGCCCTCCATCCTCTACAGCTCAGCATCAGAACACTCTCTTTTTAGACT
CCGAT**ATG**GGGGTCCCTCCAAGAAAGTTACTCTCTCAGTGCTCAGCCGGGAGCAGTCGGAAGGGGTGGAGCGAGGG
TCCGGAGAAGCATTGGCAGACCCGAGTTAAAAATCTGGATCCGTTTTTACTGTTTGATGAATTTAAAGGAGGTA
GACCAGGAGGATTTCTGTATCATCCACATCGAGGTTTTGAAACAGTATCCTACCTCCTGGAAGGGGGCAGCATGG
CCCATGAAGACTTCTGTGGACACACTGGTAAAATGAACCCAGGAGATTTGCAGTGGATGACTGCGGGCCGGGGCA
TTCTGCACGCTGAGATGCCTTGCTCAGAGGAGCCAGCCCATGGCCTACAACCTGTGGGTTAATTTGAGGAGCTCAG
AGAAGATGGTGGAGCCTCAGTACCAGGAAGTGAAGAAATCCCTAAACCCAGTAAGGATGGTGTGACAG
TTGCTGTCATTTCTGGAGAAGCCCTGGGAATAAAGTCCAAGGTTTACACTCGCACACCAACCTTATATTTGGACT
TCAAATTGGACCCAGGAGCCAAACATTCCCAACCTATCCCTAAAGGGTGGACAAGCTTCATTTACACGATATCTG
GAGATGTGTATATTGGGCCCCGATGATGCACAACAAAAATAGAACCTCATCACACAGCAGTGCTTGGAGAAGGTG
ACAGTGTCCAGGTGGAGAACAAGGATCCCAAGAGAAGCCACTTTGTCTTAATTGCTGGGGAGCCATTAAGAGAAC
CAGTTATCCAACATGGTCCATTTGTGATGAACACCAATGAAGAGATTTCTCAAGCTATTCTTGATTTCAGAAACG
CAAAAAATGGGTTTGAAAGGGCCAAAACCTGGAAATCAAAGATTGGGAAC**TAGT**GGAAAGCGGAAGAGCAGGTCT
TGATGTGTCCTAGAAATTTGCCATTTCTGAGATTGAGCCATTGAAGGCATTCCATTTCTAAAGCTTATTTAGCCG
GTGCTTCTAAAGAATTCCACACTAACGTGATAACATGGTTTTTTGTAACAATAAATGTAGGATATTTCTGGCACA
TGCAAATAAACCTAATCATTGTTTCTTTAAAAAAAAAAAAAAAAA

6661/6881
FIGURE 6150

MGSSKKVTL SVLSREQSEGVGARVRRSIGRPELKNLDPFLLFDEFKGGRPGGFPDHPHRGFETVSYLLEGGSMAH
EDFCGHTGKMNPGLQWMTAGRGILHAEMPCSEEP AHGLQLWVNLRSEKMVEFPQYQELKSEEIPKPSKDGVTV
VISGEALGIKSKVYTRPTLYLDFKLDPGAKHSQPIPKGWTSFIYTTISGDVYIGPDDAQQKIEPHHTAVLGEGDS
VQVENKDPKRSHFVLIAGEPLREPVIQHGP FVMNTNEEISQAILDFRNAKNGFERAKTWKSKIGN

6662/6881
FIGURE 6151

CTCTCTGCTCCTCCTGTTCTACAGTCAGCCGCATCTTCTTTTGCATCGTCAGCCAAACCACATCCCTGAGACACC
ATGGGGAAGGTGAAGGTGCGAGTCAACAGATTTGGTTCGTACTGGGCGCCTGGTCACCAGGGCTGCTTTTAACTCT
GGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCATTGACCTGAACTACATGGTTTACATGTTCCAATATGAC
TCCACCCATAGCAAATTCCATGGCACCCTCAAGGCTGAGAATGGGAAGCTTGTCATCAATGGAAATCCCATCACC
ATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGGGCGATGCTGGCGCTGAGTACGTGAGTCCACTGGC
GTCTTACCACCATGTAGAAGGCTGGGCCTCATTTCAGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCT
GCTGATGCCCCAATGTTTGTTCATGGGTGTGAACCATGAGAAGTATGACAACAACCTCAAGATTGTCGGCAGTGCC
TTCTGCACCACCAACTGCTTAGCACCCCTGGCCAAGGTCATCCATGACAACCTTGGTATCGTGGAAGGACTCATG
ACCATAGTCCACGCCATCACTGCCACCCAGAAGACTGTGGATGGCCCCCTCCGGGAAACTGTGGCGTGATGGCCAC
GGGGCTCTCCAGAACATCATCCCTGCCCTCTACTGGCACTGCGAAGGCTATGGGCAAGGTCATCCCTGAGCTGAAC
GGGAAGCTCACTGGCATGGCCTTCTGTGTCCCCACTGCCGTGTCAGTGGTGGACCTGACCTGCCGTCTGGAAAAA
CCTGCCAAATATGATGACACCAAGAAGGTGGTGAAGCAGGCATCGGAGGGCCCCCTCAAGGGCATCCTGGGCTAC
ACTGAGCACCAGGTGGTCTCCTCCGACTTCAACAGCAACACCCACTCTTCCACCTTCAATGCTGGGGCTGTCATT
GCCCTCAACAACCACTTTTTCAAGCTCATTTCCTGGTATGACAATGAATTTGGCTACAGCAACAGGATGGTGGAC
CTCATGGCCCACATGGCCTCCAAGGAGTAAGACCCCTGGACCACCAGCCCCAGTAAGAGCACAAGAGGAAGAGAG
AGACCCTCACTGCTGGGGAGTCCCTGCCCACTCAGTCCCCCACCACACTGAATCTCCCCTCCTCACAGTTTCCA
TGTAGACCCCTTGAAGAGGGGAGGGGCCTAGGGAGCCCCACCTTGTCATATACCATCAATAAAGTACCCTGTGCT
CAGCC

6663/6881
FIGURE 6152

CTTTTGCATCGTCAGCCAAACCACATCCCTGAGACACCATGGGGAAGGTGAAGGTCGGAGTCAACAGATTTGGTC
GTACTGGGCGCCTGGTCACCAGGGCTGCTTTTAACTCTGGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCA
TTGACCTGAACTACATGGTTTACATGTTCCAATATGACTCCACCCATAGCAAATTCATGGCACCGTCAAGGCTG
AGAATGGGAAGCTTGTCATCAATGGAAATCCCATCACCATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGG
GCGATGCTGGCGCTGAGTACGTCATGGAGTCCACTGGCGTCTTCACCACCATGTAGAAGGCTGGGCCTCATTTC
AGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCTGCTGATGCCCCAATGTTTGTTCATGGGTGTGAACCATG
AGAAGTATGACAACAACACCCACTCTTCCACCTTCAATGCTGGGGCTGTCATTGCCCTCAACAACCACTTTTCA
AGCTCATTTCCTGGTATGACAATGAATTGGCTACAGCAACAGGATGGTGGACCTCATGGCCCACATGGCCTCCA
AGGAGTAAGACCCCTGGACCACCAGCCCCAGTAAGAGCACAAGAGGAAGAGAGAGACC

6664/6881
FIGURE 6153A

CCTCTGCCACCAATGGGGAACTGGGCTGTGAATGAGGGGCTCTCCATTTTGTCAATTCTGGTTTGGCTGGGGTTGA
ACGTCTTCTCTTTGTCTGGTATTACCGGGTTTATGATATTCCACCTAAGTTCTTTTACACAAGAAAACCTTCTTG
GGTCAGCACTGGCACTGGCCAGGGCCCCCTGCAGCCTGCCTGAATTTCAACTGCATGCTGATTCTCTTGCCAGTCT
GTGCAAACTGTCTGTCTTCTCAGGGGTTCCAGTGCCTGCTGCTCAACAAGAGTTCTGAAGACAACCTGGACAGGA
ATCTCACCTTTTATAAAATGGTGGCATGGATGATTGCACCTTCACTCTGCGATTACACCATTTGCACATCTATTTA
ATGTGGAATGGTGTGTGAATGCCCGAGTCAATAATTCTGATCCTTATTTCAGTAGCACTCTCTGAACTTGGAGACA
GGCAAAATGAAAGTTATCTCAATTTTGTCTCGAAAGAGAATAAAGAACCCTGAAGGAGGCCTGTACCTGGCTGTGA
CCCTGTTGGCAGGCATCACTGGAGTTGTCTATCAGCTGTGCCTCATATTAATTATCACTTCTCTCCACCAAAAACCA
TCCGGAGGTCTTACTTTGAAGTCTTTTGGTACACACATCATCTCTTTGTGATCTTCTTCATTGGCCTTGCCATCC
ATGGAGCTGAACGAATTGTACGTGGGCAGACCGCAGAGAGTTTGGCTGTGCATAATATAACAGTTTGTGAACAAA
AAATCTCAGAATGGGGAAAAATAAAGGAATGCCAATCCCTCAGTTTGTGGAACCCCTCTATGACTTGGAAAT
GGATAGTGGGTCCCATGTTTCTGTATCTCTGTGAGAGGTTGGTGCAGTTTGGCGATCTCAACAGAAGGTGGTCA
TCACCAAGGTGGTCACTACCCCTTCAAACCATCGAGCTACAGATGAAGAAGAAGGGGTTCAAATGGAAGTGG
GACAATACATTTTGTCAAGTGCCCAAAGGTGTCCAAGCTGGAGTGGCACCCCTTTTACACTGACATCCGCCCCCTG
AGGAAGACTTCTTTAGTATCCATATCCGCATCGTTGGGGACTGGACAGAGGGGCTGTTCAATGCTTGTGGCTGTG
ATAAGCAGGAGTTTCAAGATGCGTGGAACTACCTAAGATAGCGGTTGATGGGCCCCCTTGGCACTGCCAGTGAAG
ATGTGTTTCAGCTATGAGGTGGTGATGTTAGTGGGAGCAGGGATTGGGGTCACACCCCTTCGCATCCATTCTCAAGT
CAGTCTGGTACAAATATTGCAATAACGCCACCAATCTGAAGCTCAAAAAGATCTACTTCTACTGGCTGTGCCGGG
ACACACATGCCTTTGAGTGGTTTGCAGATCTGCTGCAACTGCTGGAGAGCCAGATGCAGGAAAGGAACAATGCCG
GCTTCTCTCAGCTACAACATCTACCTCACTGGCTGGGATGAGTCTCAGGCCAATCACTTTGCTGTGCACCATGATG
AGGAGAAAGATGTGATCACAGGCCTGAAACAAAAGACTTTGTATGGACGGCCCAACTGGGATAATGAATTCAAGA
CAATTGCAAGTCAACACCCTAATACCAGAATAGGAGTTTCTCTGTGGACCTGAAGCCTTGGCTGAAACCCCTGA
GTAAACAAAGCATCTCCAACCTCTGAGTCTGGCCCTCGGGGAGTGCATTTTCAATTTTCAACAAGGAAAACCTCTAAC
TTGTCTCTTCCATGAGGAAATAAATGTGGGTTGTGCTGCCAATGCTCAAATAATGCTAATTGATAATATAAATA
CCCCCTGCTTAAAAATGGACAAAAAGAACTATAATGTAATGGTTTTCCCTTAAAGGAATGTCAAAGATTGTTTG
ATAGTGATAAGTTACATTTATGTGGAGCTCTATGGTTTTGAGAGCACTTTTACAAACATTATTTTCAATTTTTTCC
TCTCAGTAATGTCAAGTGAAGTTAGGGAAAAGATTCTTGGACTCAATTTTAGAATCAAAAGGGAAAGGATCAAAA
GGTTCAGTAACCTCCCTAAGATTATGAACTGTGACCAGATCTAGCCCATCTTACTCCAGGTTTGATACTCTTTC
CACAATACTGAGCTGCCTCAGAATCCTCAAAATCAGTTTTTATATTCCCCAAAAGAAGAAGGAAACCAAGGAGTA
GCTATATATTTTCTACTTTGTGTCATTTTGGCATCATTATTATCATACTGAAGGAAATTTTCCAGATCATTAGGA
CATAATACATGTTGAGAGTGTCTCAACACTTATTAGTGACAGTATTGACATCTGAGCATACTCCAGTTTACTAAT
ACAGCAGGGTAACTGGGCCAGATGTTCTTTCTACAGAAGAATATTGGATTGATTGGAGTTAATGTAATACTCATC
ATTTACCACTGTGCTTGGCAGAGAGCGGATACTCAAGTAAGTTTTGTAAATGAATGAATGAATTTAGAACCACA
CAATGCCAAGATAGAATTAATTTAAAGCCTTAAACAAAATTTATCTAAAGAAATAACTTCTATTACTGTTCATAGA
CCAAAGGAATCTGATTCTCCCTAGGGTCAAGAACAGGCTAAGGATACTAACCATAGGATTGCCTGAAGGGTTCT
GCACATTCTTATTTGAAGCATGAAAAAGAGGGTTGGAGGTGGAGAATTAACCTCCTGCCATGACTCTGGCTCAT
CTAGTCTGCTCCTTGTGCTATAAAATAAATGCAGACTAATTTCTGCCCCAAAGTGGTCTTCTCCAGCTAGCCCC
TATGAATATTGAACCTTAGGAATTGTGACAAATATGTATCTGATATGGTCATTTGTTTTAAATAACACCCACCCCT
TATTTTCCGTAAATACACACACAAAATGGATCGCATCTGTGTGACTAATGGTTTTATTGTATTATATCATCATCA
TCATCCTAAAATTAACAACCCAGAAACAAAATCTCTATACAGAGATCAAATTCACACTCAATAGTATGTTCTGA
ATATATGTTCAAGAGAGAGTCTCTAAATCACTGTAGTGTGGCCAAGAGCAGGGTTTTCTTTTTGTTCTTAGAAC
TGCTCCCATTCTGGGAACATAAACAGTTTTATTTGCCCCACCCCTTGGAGCCACAAATGTTTAGAACTCTTCA
ACTTCGGTAATGAGGAAGAAGGAGAAAGAGCTGGGGGAAGGGCAGAAGACTGGTTTAGGAGGAAAAGGAAATAAG
GAGAAAAGAGAATGGGAGAGTGAGAGAAAATAAAAAAGGCAAAAGGGAGAGAGAGGGGAAGGGGGTCTCATATTG
GTCATTCCCTGCCCCAGATTTCTTAAAGTTTTGATATGTATAGAATATAATTGAAGGAGGTATACACATATTGATG
TTGTTTTGATTATCTATGGTATTGAATCTTTTAAATCTGGTCACAAATTTTGTGCTGAGGGGGATTATTCAAG
GGACTAGGATGAATAAATAAGAACTCAGTTGTTCTTTGTCACTACTATTCTTTCTGCTCTCCAGAACTCTCA
GGGCACTGAGGGTAGGTCTGACAAATAAGGCCTGCTGTGCGAATATAGCCTTTCTGAAATGTACCAGGATGGTTT

6665/6881

FIGURE 6153B

CTGCTTAGAGACACTTAGGTCCAGCCTGTTCACACTGCACCTCAGGTATCAATTCATCTATTCAACAGATATTTA
TTGTGTTATTACTATGAGTCAGGCTCTGTTTATTGTTTCAATTCTTTACACCAAAGTATGAACTGGAGAGGGTAC
CTCAGTTATAAGGAGTCTGAGAAATATTGGCCCTTTCTAACCTATGTGCATAATTAAAAACCAGCTTCATTTGTTGC
TCCGAGAGTGTTTCTCCAAGGTTTTCTATCTTCAAACCAACTAAGTTATGAAAGTAGAGAGATCTGCCCTGTGT
TATCCAGTTATGAGATAAAAAATGAATATAAGAGTGCTTGTCATTATAAAAGTTTCCTTTTTTATTCTCTCAAGC
CACCAGCTGCCAGCCACCAGCAGCCAGCTGCCAGCCTAGCTTTTTTTTTTTTTTTTTTTTTTTTAGCACTTAGTAT
TTAGCATTTATTAACAGGTACTCTAAGAATGATGAAGCATTGTTTTTAATCTTAAGACTATGAAGTTTTTCTTA
GTTCTTCTGCTTTTGCAATTGTGTTTGTAATTTGAATACTTGCAGGCTTTGTATGTGAATAATTCTAGCGGGG
GACCTGGGAGATAATTCCTACGGGGAATTCTTAAACTGTGCTCAACTATTAAATGAATGAGCTTTC

6666/6881
FIGURE 6154

MGNWAVNEGLSIFVILVWLGLNVFLFVWYYRVYDIPPKFFYTRKLLGSALALARAPAAACLNFNCLILLPVCRNL
LSFLRGSSACCSTRVRRQLDRNLTFHKMVAWMIALHSAIHTIAHLFNVEWCVNARVNNSDPYSVALSELGDRQNE
SYLNFARKRIKNPEGGLYLAVTLLAGITGVVITLCLILIIITSSTKTIRRSYFEVFWYTHHLFVIFFIGLAIHGAE
RIVRGQTAESLAVHNITVCEQKISEWGKIKECPIQFAGNPPMTWKWIVGPMFLYLCEVLVRFWRSQQKVITKV
VTHPFKTIELQMKKKGFKMEVGQYIFVKCPKVSKLEWHPFTLTSAPEEDFFSIHIRIVGDWTEGLFNACGCDKQE
FQDAWKLPKIAVDGPFGTASEDVFSYEVVMLVGAGIGVTPFASILKSVWYKYCNNATNLKLLKKIYFYWLCRDTHA
FEWFADLLQLLESQMQRNNAAGFLSYNIYLTGWDESQANHFVHHDEEKDVITGLKQKTLYGRPNWDNEFKTIAS
QHPNTRIGVFLCGPEALAEITLSKQSI SNSESGPRGVHFI FNKENF

6667/6881
FIGURE 6155

AAAACACCAAATGGCGGATGACGCCGGTGCAGCGAGGAGGGTCCGGAGGCCCTGGTGGCCCTGGGATGGGGAACC
GCGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCGGCCGTGGACGGGGCCGGGGCCGAG
GCCGCGGAGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCCGTCACCAAGTTGGGCCGCTTGGTCAAGG
ACATGAAGATCAAGTCCCTGGAGGAGATATATCTCTTCTCCCTGCCCATTAAGGAATCAGAGATCATTGACTTTT
GCTTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGATCCGTGCCGGCCAGCGCA
CCAGGTTCAAGGCGTTTGTGCTATCGGGGACTACAATGGCCACGTCGGTCTGGGTGTTAAGTGTCCAAGGAGG
TGGCCACCGCCATCCGTGGGGCCATCATCCTGGCCAAGCTCTCCATTGTCCCCGTGCGCAGAGGCTACTGGAGGA
ACAAGATCGGCAAGCCCCACACCGTCCCTTGCAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCC
CTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCCTAAGAAGCTGCTTATGATGGCTGGTATCGATGACT
GCTACACCTCAGCCCGGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGA
CCTACAGCTACCTGACCCCCGACCTCTGGAAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCAGTGACC
ACCTCGTCAAGACCCACACCAGAGTCTCCGTGCAGCGGACTCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTT
ACACAAGAAAAATAAAGTGAATTAAGCGTG

6668/6881
FIGURE 6156

MPVTKLGRLVKDMKIKSLEEIYLFSLPIKESEIIDFCLGASLKDEVLKIMPVQKQIRAGQRTREKAFVAIGDYNG
HVGLGVKCSKEVATAIRGAILAKLSIVPVRRGYWRNKIGKPHTVPCKVTGRCGSVLVRLIPAPRGTGIVSAPVP
KKLLMMAGIDDCYTSARGCTATLGNFAKATFDAISKYSYLTDLWKETVFTKSPYQEFTDHLVKTHTRVSVQRT
QAPAVATT

AACATCCAGTCATGGATAAAAAATGAGCTGGTTTCAGAAAGGCCAAACTTGCCCGAGCAGGCTGAGCGATATGATGAC
 ATGGCAGCCTGCATGAAGTCTGTAAGTCTGAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTT
 GCTTATAAAAAATGTTTTAGGAGCCCGTAGGTCATCTTTGGAGGGTCGTCCTCAAGTATTGAACAAAAGACGGAAGGT
 GCTGAGAAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAAGTTGATACGGAGCTAAGAGATATCTGCAATGAT
 GTACTGTTTTCTTTTGGAAAAAGTTCTTGATCCCCAGTGCTTCACAAGCAGAGAGCAAAGTCTTCTCTTTGAAAAATG
 AAAGGAGATTACTACCATTACTTGGCAGAGGTTGCCACTGGTGATGACAAGAAAGGGATTGTGGATCAGTCACAA
 CAAGCATACCAAGAAGCTTTTGAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACCAGGTCTGGCC
 CTTAACTTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAAGCCTGCTCTCTTGCAAAGACAGCTTTT
 GATGAAGCCATTGCTGAACCTTGATACATTAATTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATTACTG
 AGAGACAACCTTGACATTGTGGACATCAGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAAATTAA
 CCGGCCCTCCAACCTTTTGTGTGCCTCATTCTAAAATTTACACAGTAGACCATTGTGTCATCCATGCTGTGCCACAA
 AGTTTTTTATTTACGATTTATGACAGGTTTATGTTACTTCTATTTGAAATTTCTATGTTTCCCATGTGGTTTTTCAT
 GTTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGGAGTTACCTGTTTTTCATCTTGAGGTGGCCAATATGGG
 GATGTGGAAATTTTTATACAAGTTATAAAATGTTTGGCATAGTACTTTTGGTACATTGTGGCTTCACAAGGGCCAGG
 GTAAAACCTGCTTCCCTGTCCAAGCAAAAGAAAACCTGCCTACATATTGGTTTTGTCCTGGTGGGGAATAAAAGGGATC
 ATTGGTTCCAGTCACAGGTGTAGTAATTGTGGGTACTTTAAGGTTTTGGAGCACTTACAAGGCTGTGGTAGAAACA
 TACCCCATGGATACCACATATTAAACCATGTATATCTGTGGAATACTCAATCTCAATGTGCACACCTTTGACTAC
 AACTGCAGAAAGTGTTCCCTTTAGACAAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACGGTTTCACATTCC
 ATTATTTGTAAAGTTACCTGCTGTTAGCTTTTCAATTATTTTTGCTACACTCATTTTATTGTATCTAAATGTTTTA
 GGCAACCTAAGAACAAATGTAAAAGTAAAGATGCAGGAAAAATGAATTGCTTGGTATTCTACTTTCATCTGTAT
 CAAGCACAGCAGTAAAAACAAAACCCATGTATTTAACTTTTTTTTTTTAGGTTTTTTGCTTTTGTGATTTTTTTT
 TTGATACTTGCCTAACATGCATGTGCTGTATAACAATCCAAGCATAATTGTTAAGAACACATGTATTAAATTCAT
 GTAAGTGGAATAAAAAGTTTTATGAATGGACTTTTCAACTACTTTCTCTACAGCTTTTCATGTAAATTAGTCTTTT
 GGTCTGAAAACCTTCTCTAAAGGAAATTGTACATTTTTTGAAATTTATTCCTTATTCCCTCTTGGCAGCTAATGGG
 CTTTACCAAGTTTTAAACACAAAATTTATCATAACAACAAAATACTACTAATAATACTACTGTTTCCATGTCCC
 GTGATCCCCCTCTCTTCCCTCCCCACCTGAAAAAAATGAGTTCCAATTTTTTTTGGGAGAGGGGAGATTGATTAGAA
 AAAAATGTAATATGTTCCATTTAAATTTTGGCGTATGGCATTTTCTAACTTAGGAAGCCACAATGTTCTTGGCC
 CGTCATGACATTGGGTAGCATTAACTATAAGTTTTGTGCTTCCAAATCACTTTTTTGGTTTTTAAGAATTTCTTGA
 TACTCTTATAGTCTGCCTTCAATTTTTGATCCTTTATTCTATTTGTGAGGTGCACAAGATTACCTTCCCTTTTTT
 CCTTCTGTCTTGTACCAACCATTCCCTACTTGGTGGCCATGTACTTGGAAAAAGGCCGATGACCTTTCTGGCTC
 CACTCAGTGTCTAAGGCACCCTGCTTCCCTTTGCTTGCATCCACAGACTATTTCCTCTATCTATTTACTGCAGC
 AAATCTCTCCTTAGTTGATGAGATTGTGTTTATCTCCCTTTAAAAACCTGCCTATCCTGAATGGTTTGTCTATTGT
 CTGCCTTTAAATCCTTCCCTCTTTCTTCCCTCTGTTCTCTAAATAATGATGGGGCTAAGTTATACCCAAAGCT
 CACTTTACAAAATATTTCCCTCAGTACTTTGCAGAAAAACACCAAAACAAAATGCCATTTTAAAGAGGTATATTTT
 TTCTTTTGAATGTAAGCTCCTCAAGAGCAGGGACAATGTTTTCTGTATGTTCTGTTGTGCTAGTACACTGTAA
 ATGCTCAATAAATATTGATGATGGGAGGCA

6670/6881
FIGURE 6158

GATGACATGGCAGCCTGCATGAAGTCTGTAAGTGAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTC
TCAGTTGCTTATAAAAATGTTTTAGGAGCCCGTAGGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACG
GAAGGTGCTGAGAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAAGTTGATACGGAGCTAAGAGATATCTGC
AATGATGTACTGTTTCTTTTGGAAAAGTTCTTGATCCCCAGTGCTTCACAAGCAGAGAGCAAAGTCTTCTCTTTG
AAAATGAAAGGAGATTACTACCATTTACTTGGCAGAGGTTGCCACTGGTGATGACAAGAAAAGGGATTGTGGATCAG
TCACAACAAGCATAACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACCAGGT
CTGGCCCTTAACTTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAAGCCTGCTCTCTTGCAAAGACA
GCTTTTGATGAAGCCATTGCTGAACTTGATACATTAATTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAA
TTACTGAGAGACAACCTTGACAATGTGGTTTTTCATGTTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAG
TTACCTGTTTTTCATCTTGAGGTGGCCAATATGGGGATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGT
ACTTTTGGTACATTGTGGCTTCA

6671/6881
FIGURE 6159

AGCTGACACAACCAAGACGAGTCTCAGTGTCTAGGGAAGCTTGGGGTCTGCTCCTTTTACTTCAGGCGAACCTG
AACTTTAATGCAATTTTGAAGCATGCCCTGAATAGATTCAAGTCAAACTAAAAACGGTGAAAGGT
TGCGACTATTACCAAATAGAAGACAATGAGAAGTCATACCATAACAATGACGACAACCTTCAGTCAGCAGCTGGCC
TTACTCCTCCACAGAATGCGCTTTATAACCAATCATAGCGACCAACC GCCACAAAACCTTCTCAGCAACACCAAA
TGTTACTACCTGTCCCATGGATGAAAAATTGCTATCTACTGTGTTAACCACATCCTACTCTGTTATTTTCATCGT
GGGACTGGTTGGGAACATAATCGCCCTCTATGTATTTCTGGGTATTACCGTAAAAGAAATTCCATTCAAATTTA
TCTACTTAACGTAGCCATTGCAGACCTCCTACTCATCTTCTGCCTCCCTTTCCGAATAATGTATCATATTAACCA
AAACAAGTGGACACTAGGTGTGATTCTGTGCAAGGTTGTGGGAACACTGTTTTATATGAACATGTACATTAGCAT
TATTTTGCTTGGATTTCATCAGTTTGGATCGCTATATAAAAATTAATCGGTCTATACAGCAACGGAAGGCAATAAC
AACCAAAACAAAGTATTTATGTCTGTTGTATAGTATGGATGCTTGCTCTTGGTGGATTCCCTAACTATGATTATTTT
AACACTTAAGAAAGGAGGGCATAATTCCACAATGTGTTTCCATTACAGAGATAAGCATAACGCAAAAGGAGAAGC
CATTTTTAACTTCATTCTTGTGGTAATGTTCTGGCTAATTTTCTTACTAATAATCCTTTCATATATTAAGATTGG
GAAGAATCTATTGAGGATTTCTAAAAGGAGGTCAAATTTCCCTAATCTGGTAAATATGCCACTACAGCTCGTAA
CTCCTTTATTGTACTTATCATTTTTTACTATATGTTTTGTTCCCTATCATGCCTTTCGATTTCATCTACATTTCTTC
ACAGCTAAATGTATCATCTTGCTACTGGAAAGAAATTGTTTACAAAACCAATGAGATCATGCTGGTTCTCTCATC
TTTCAATAGTTGCTTAGATCCAGTCATGTATTTCTGATGTCCAGTAACATTCGCAAAATAATGTGCCAACTTCT
TTTTAGACGATTTCAAGGTGAACCAAGTAGGAGTGAAAGCACTTCAGAATTTAAACCAGGATACTCCCTGCATGA
TACATCTGTGGCAGTGAAAATACAGTCTAGTTCTAAAAGTACTTGAGGTAAACATACTAAAATGAATTATATAAT
GCAGCCTCTTAATTCCTTGAAGAACTAAAAAATTAGGAAACAAGTTCTAGCATTTACAAAACCTCAGATCTCAAAG
CTCTGCTTGTATTTGTGATATTTCAATTTGCTTAACTGTAAACCATTTCAAGGTACTATCTTTTAAATCTGTATGT
AAAATCTTTTCAAATACATTTTAAAGCTAATACTCTTAACATAGATTATGAAGTTAAGTGAAATTTATGGCTCT
AACAGCAAATAATTAAGTGCCATAGTTTCTCAAGTGACTAAAGTAGTTATTAAAAATCAAGCACTTGATACTAA
TTTGAAGTGTGTTTAAAGTAAATGATTTGGGAAGTGACAATGTGTGCAGAAAATATATGTTTCAATTTATCATTTTA
AAATCTTGTATAATTTGCCACTGTATTCATTTATGCCTAAATCTCTATAACAGATGAAAAGATAATTAATAAAAT
CCTAATTAATAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6672/6881
FIGURE 6160

MRSHITITMTTTSVSSWPYSSHRMRFITNHSDQPPQNF SATPNVTTCPMDEKLLSTVLTTSSVIFIVGLVGNIIA
LYVFLGIHRKRNSIQIYLLNVAIADLLLIFCLPFRIMYHINQNKWTLGVILCKVVGTLFYMNMYISIILLGFISL
DRYIKINRSIQQRKAITTKQSIYVCCIVWMLALGGFLTMIILTTLKKGHNSTMCFHYRDKHNAKGEAIFNFILVV
MFWLIFLLIILSYIKIGKNLLRISKRRSKFPNSGKYATTARN SFIVLIIFTICFVPYHAFRFIYISSQLNVSSCY
WKEIVHKTNEIMLVLSSFNSCLDPVMYFLMSSNIRKIMCQLLFRRFQGEPSRSESTSEFKPGYSLHDTSVAVKIQ
SSSKST

6673/6881
FIGURE 6161

TTTCCGCGCTACCTACAGAGGGGTCCATATGGCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAACTTTTAC
AATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCATGCAGCAGGAACCCACTT
AGGCGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGTTTCTGCTGGCAGCTCGTGCTGTTGTTGCCATTGAAAACCCTGCTGATGTCAG
TGTTATATCCTCCGGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTTGGTTAC
TGACCCCAGGGCTGACCACCAGCCTCTCACGGAGTCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAC
AGATTCTCCTCTGCGCTATGTGGACATTGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTGGTGGATGCTG
GCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTTGGACACCCATGGGAGGTCATGCCTGATCTCTACTTC
TACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGAGGAATTTTAC
GGTGAATGGACTGCTCCTGCTCCTGAGTTCACTGCCACTCAGCCTGAGGTTGCAGACTTGTCTGAAGGTGTACAG
GTGCCCTCTGTGCCTATTTCAGCAGTTCCCTACTGACGACTGGAGCACTCAGCCTGCCACGGAAAACTGGTCTGCA
GCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGATAGGCTCTT
AAGCAACATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

6674/6881
FIGURE 6162

MSGALDVLQMKEEDVLKFHAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKFLAARAVVAIENPADVS
VISSGNTGQRAVLKFAAATGATPIAGHFTPGIFTNQIQAAFREPRLLVVTDPRADHQPLTESSYVNLPTIALCNT
DSPLRYVDIATTRELTQWV

FIGURE 6163

[illegible]

6676/6881
FIGURE 6164

MMGLSNLSPGPGPSQAVPLPEGLLRQRYREEKLEERRWERLEFLQRKKAFLRHVRRRHRDHMAPYAVGREARIS
PLGDRSQNRFRCECRYCQSHRPNLGIPGESNRAPHPSSWETLVQGLSGLTSLGTNQPGLPEAALQPQETEEK
RQRERQQESKIMFORLLKQWLEEN

6677/6881
FIGURE 6165

GGCACGAGGGTGGTTCGGAGCGCCGACTCCCTTCTCGTCGTCGCCATTTTGAGCTGGTGACTGTGGCCGGCTGGGA
GTAGGCGGCAGTGAGTTTCCCTGGGAGGGCAGCGCGCTTGGCGCTTCTCCCTCCCCCGATCTGCCTCCAGTCT
CGGACTTGTTGTTGCGCGCTCCGGCTCCGGCTGAGCTGGGAGAGTTGGAGGAGGTGGCGGCGGGCAGAGGTGAT
GTCTGGGAGCCCTTCCCTTGACAGCCCGGGCCGAGAAGAGTCCCTGCAGGAAGCATCACCCAGGCTGGCAGATCAT
GGTAGCAGCAGCGGGGTGGCTGGGAAGTGAACCGAGCCAGCGGCTGAGGAGGGGCCCCAGCAGCCCCGAAGG
CCCTATCAGGACATGGAGTATGAAAGACGTGGTGGTCTGGTGACAGGACTGGCCGCTATGGAGCCACTGACCGC
TCGCAGGATGATGGTGGGGAGAACCGCAGCCGAGACCAGACTACCGGGACATGGACTACCGTTCATATCCTCGC
GAGTATGGCAGCCAGGAGGGCAAGCATGACTATGACGACTCATCTGAGGAGCAGAGTGCGGAGGATTCTACGAG
GCCTCCCCGGGCTCCGAGACTCAGCGTAGGCGGCGGGCGGCACAGGCACAGCCCCACCGGCCGCCAGGCTTC
CCCCGAGACGGCGACTATCGGGACCAGGACTATCGGACCAGCAAGGGGAGGAGGAGGAGGAGGAGGATGAG
GAGGAGGAGGAGAAGGCCAGTAACATCGTCATGCTGAGGATGCTGCCACAGGCAGCCACTGAGGATGACATCCGT
GGCCAGCTGCAGTCGCACGGCGTGCAAGCACGGGAGGTTGGGCTGATGCGGAACAAATCTTCAGGTGAGAGCCGG
GGCTTCGCCTTCGTGCGAGTTTAGTCACCTGCAGGACGCTACACGATGGATGGAAGCCAATCAGCACTCCCTCAAC
ATCCTGGGCCAGAAGGTGTCGATGCACTACAGTGACCCCAAGCCCAAGATCAATGAGGACTGGCTGTGCAATAAG
TGTGGCGTCCAGAAGTTCAAACGCCGAGAGAAGTGCTTCAAATGTGGCGTGCCCAAGTCAGAGGCAGAGCAGAAG
CTGCCCCTCGGCACGAGGCTGGATCAGCAGACACTGCCACTGGGTGGCCGGGAGCTGAGCCAGGGCCTGCTTCCC
CTGCCGACGCCCTACCAGGCCAGGGAGTCCCTGGCCTCCCAAGCCCTGTACAGGGCTCGGAGCCAAGCTCAGAG
AACGCCAATGACACCATCATTTTGCGCAACCTGAACCCACACAGCACCATGGATTCCATCCTGGGGGCCCTGGCA
CCCTACGCGGTGCTGTCTCTCCCTCCAACGTGCGCGTCATAAAGGACAAGCAGACCCAACTGAACCGCGGCTTTGCC
TTCATCCAGCTCTCCACCATCGTGGAGGCAGCCAGCTGCTGCAGATCCTGCAGGCCCTGCACCCACCACTCACT
ATCGACGGCAAGACCATCAATGTTGAGTTTGCCAAGGGTTCTAAGAGGGACATGGCCTCCAATGAAGGCAGTCGC
ATCAGTGCTGCCTCTGTGGCCAGCACTGCCATTGCTGCGGCCAGTGGGCCATCTCACAGGCCTCCCAAGGTGGG
GAGGGTACCTGGGCCACCTCCGAGGAGCCGCGGTCGACTACAGCTACTACCAACAGGATGAGGGCTATGGCAAC
AGCCAGGGCACAGAGTCTTCCCTCTATGCCCATGGCTACCTCAAGGGCACCAAGGGCCCTGGCATCACTGGAACC
AAAGGGGATCCCACTGGAGCAGGTCCCGAGGCCTCCCTAGAGCCTGGGGCCGACTCTGTGTGATGCAGGCTTTC
TCTCGCGCCAGCCTGGTGCTGCTCCTGGCATCTACCAACAATCAGCCGAGGCGAGCAGTAGCCAGGGCACTGCT
GCCAACAGCCAGTCGTATACCATCATGTACCCGCTGTGCTCAAATCTGAGCTCCAGAGCCCTACCCATCCTAGT
TCTGCTCTCCACCGGCTACCAGCCCCACTGCCAGGAATCCTACAGCCAGTACCCTGTTCCCGACGTCTCTACC
TACCAGTACGATGAGACCTCCGGCTACTACTATGACCCCAAGACCGGCTCTACTATGACCCCAACTCCAGTAT
TACTACAATGCTCAGAGCCAGCAGTACCTGTACTGGGATGGGGAGAGGCGGACCTATGTTCCCGCCCTGGAGCAG
TCGGCCGACGGACATAAGGAGACAGGGGCACCCTCGAAGGAGGGCAAAGAGAAAGAGGAGAAGCACAAGACCAAG
ACAGCTCAACAGATTGCCAAGGACATGGAACGCTGGGCCCGCAGTCTCAACAAACAAAAAGAAACTTCAAAAAT
AGCTTCCAGCCTATCAGCTCCCTGCGAGATGACGAGAGGCGGGAGTCAGCCACTGCAGATGCTGGCTATGCCATC
CTCGAGAAGAAGGGAGCACTAGCCGAGAGACAGCACACCAGCATGGATCTCCCGAAATTGGCCAGTGACGACCGC
CCAAGCCCTCCGCGAGGACTGGTGGCAGCCTACAGCGGGGAGAGTGACAGTGAGGAGGAGCAGGAGCGTGGGGGC
CCTGAGCGGGAGGAGAAGCTCACCGACTGGCAGAAGCTGGCCTGTCTGCTCTGCCGACGCCAGTTCCTCCAGCAAA
GAGGCGCTCATCCGGCACACGAGCAGTCTCAGGGCTCCACAAGCAAAACCTTGAGATTACCGGCGAGCCCACTTG
TCAGAAAACGAGCTAGAAGCACTAGAGAAGAATGACATGGAGCAAATGAAGTACCGGGACCGTGCAGCTGAACGC
AGAGAAAAGTATGGCATCCCCGAGCCGCCAGAGCCCAAGAGGAGGAAGTACGGCGGCATATCCACAGCCTCTGTA
GACTTCGAGCAGCCTACTCGGGACGGGCTGGGCAGTGACAACATTGGCAGTCGGATGCTGCAGGCCATGGGCTGG
AAAGAGGGCAGCGGCTGGGCCGCAAGAAGCAGGGCATTGTAACGCCTATCGAGGCCCAACACGGGTGCGGGGC
TCCGGCCTGGGTGCACGGGGCAGCTCCTACGGGGTCACTCAACCGAGTCTTACAAGGAGACACTGCACAAGACA
ATGGTGACCCGCTTCAACGAGGCCCACTGAGCAGCTTCAAGAGCAACTTCTCCACATGTTGGGTGTCCATCCTGG
GGCAGGGAAGGACAGAGTGTGGATGGCTGGGACGGGGCCTTGCTCTTGTCGGCCAGCCCACTCCCGAGCCAGAG
AGGGCTTGACCAAAATCAAATTGAGGTGGTGACTTTTGTGGAAAATTGGGCTGGGATCACGTCTGTTTTGTAAT
AAAAGCTGAAAAGTCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6678/6881'
FIGURE 6166

MEYERRGGRGDRGTGRYGATDRSQDDGGENRSRDHDYRDMDYRSYPREYGSQEGKHDYDDSSSEEQSAEDSYEASPG
SETQRRRRRRHRHSPTGPPGFPRDGDYRDQDYRTEQGEEEEEEEEDEEEEEKASNIVMLRMLPQAATEDDIRGQLQ
SHGVQAREVRLMRNKSSGQSRGFAFVEFSLQDATRWMEANQHSLNILGQKVMHYSDPKPKINEDWLCNKCQVQ
NFKRREKCFKCGVPKSEAEQKLPLGTRLDQQTLPPLGGRELSQGLLPQPYQAQGVLASQALSQGSEPSSENAND
TIILRNLPNSTMDSILGALAPYAVLSSSNVRVIKDKQTQLNRGFQFIQLSTIVEAAQLLQILQALHPPLTIDGK
TINVEFAKGSKRDMASNEGSRISAASVASTAIAAAQWAI SQASQGGEGTWTATSEEPVDYSYYQQDEGYGNSQGT
ESSLYAHGYLKGTKGPGITGTKDPTGAGPEASLEPGADSVSMQAFSRAQPGAAPGIYQQSAEASSSQGTAANSQ
SYTIMSPAVLKSELQSPHPSSALPPATSPTAQESYSQYPVPDVSTYQYDETSGYYYDPQTGLYYDPNSQYYNA
QSQQYLYWDGERRTYVPALEQSADGHKETGAPSKEGKEKKEKHKTKTAQQIAKDMERWARSLNKQKENFKNSFQP
ISSLRDDEERRESATADAGYAILEKKGALAERQHTSMDLPKLASDDRPSPPRGLVAAYSGESDSEEEQERGGPERE
EKLTDWQKLACLLCRRQFPSKEALIRHQQLSGLHKQNL EIHRRAHLSENELEALEKNDMEQMKYRDRAAERREKY
GIPEPPEPKRRKYGGISTASVD FEQPTRDGLGSDNIGSRMLQAMGWKEGSGLGRKKQGIVTPIEAQTRVRGSGLG
ARGSSYGVTTSTESYKETLHKTMVTRFNEAQ

6679/6881
FIGURE 6167

TGGCGGCGGCGCGACCCGGGGAACCGGCATTGATGTCCAGCTCGCCGCTGTCCAAGAAACGTCGCGTGTCCGGGC
CTGATCCAAAGCCGGGTTCTAACTGCTCCCCTGCCAGTCCGTGTTGTCCGAAGTGCCCTCGGTGCCAACCAACG
GAATGGCCAAGAACGGCAGTGAAGCAGACATAGACGAGGGCCTTTACTCCCGGCAGCTGTATGTGTTGGGCCATG
AGGCAATGAAGCGGCTCCAGACATCCAGTGTCTTGGTATCAGGCCTGCGGGGCTGGGCGTGGAGATCGCTAAGA
ACATCATCCTTGGTGGGGTCAAGGCTGTTACCCTACATGACCAGGGCACTGCCAGTGGGCTGATCTTTCTCC
AGTTCTACCTGCGGGAGGAGGACATCGGTAAAAACCGGGCCGAGGTATCACAGCCCCGCCTCGCTGAGCTCAACA
GCTATGTGCCTGTCACTGCCTACACTGGACCCCTCGTTGAGGACTTCCTTAGTGGTTTCCAGGTGGTGGTGCTCA
CCAACACCCCCCTGGAGGACCAGCTGCGAGTGGGTGAGTTCTGTACAACCGTGGCATCAAGCTGGTGGTGGCAG
GCACGCGGGGCTGTTTGGGCAGCTCTTCTGTGACTTTGGAGAGGAAATGATCCTCACAGATTCCAATGGGGAGC
AGCCACTCAGTGTATGTTTTCTATGTTACCAAGGACAACCCCGGTGTGGTTACCTGCCTGGATGAGGCCCGAC
ACGGGTTTGAGAGCGGGGACTTTGTCTCCTTTTTCAGAAGTACAGGGCATGGTTGAACCTCAACGGAAATCAGCCCA
TGGAGATCAAAGTCTTGGGTCCTTATACCTTTAGCATCTGTGACACCTCCAACCTTCTCCGACTACATCCGTGGAG
GCATCGTCAGTCAGGTCAAAGTACCTAAGAAGATTAGCTTTAAATCCTTGGTGGCCTCACTGGCAGAACCTGACT
TTGTGGTGACGGACTTCGCCAAGTTTTCTCGCCCTGCCAGCTGCACATTGGCTTCCAGGCCCTGCACCAGTTCT
GTGCTCAGCATGGCCGGCCACCTCGGCCCGCAATGAGGAGGATGCAGCAGAACTGGTAGCCTTAGCACAGGCTG
TGAATGCTCGAGCCCTGCCAGCAGTGCAGCAAAATAACCTGGACGAGGACCTCATCCGGAAGCTGGCATATGTGG
CTGCTGGGGATCTGGCACCCATAAACGCCTTCAATTGGGGGCTGGCTGCCAGGAAGTCATGAAGGCTGCTCCG
GGAAGTTTCATGCCATCATGCAGTGGCTATACTTTGATGCCCTTGAGTGTCTCCCTCAGGACAAAGAGGTCTCA
CAGAGGACAAGTGCTCCAGCGCCAGAACCCTTATGACGGCAAGTGGCTGTGTTGGCTCAGACCTGCAAGAGA
AGCTGGGCAAGCAGAAAGTATTTCTTGGTGGGTGCGGGGCCATTGGCTGTGAGCTGCTCAAGAACTTTGCCATGA
TTGGGCTGGGCTGCGGGGAGGTTGGAGAAATCATCGTTACAGACATGGACACCATGAGAAGTCAAATCTGAATC
GACAGTTTCTTTTCCGGCCCTGGGATGTACGAAGTTAAAGTCTGACACGGCTGCTGCAGCTGTGCGCCAAATGA
ATCCACATATCCGGGTGACAAGCCACCAGAACCGTGTGGGTCTGACACGGAGCGCATCTATGATGACGATTTTT
TCCAAAACCTAGATGGCGTGGCCAATGCCCTGGACAACGTGGATGCCCGCATGTACATGGACCGCCGCTGTGTCT
ACTACCGGAAGCCACTGCTGGAGTCAGGCACACTGGGCACCAAAGGCAATGTGCAGGTGGTGATCCCCCTTCTGA
CAGAGTCGTACAGTTCCAGCCAGGACCCACCTGAGAAGTCCATCCCCATCTGTACCCTGAAGAACTTCCCTAATG
CCATCGAGCACACCCTGCAGTGGGCTCGGGATGAGTTTGAAGGCCTCTTCAAGCAGCCAGCAGAAAATGTCAACC
AGTACCTCACAGACCCCCAAGTTTGTGGAGCGAACACTGCGGCTGGCAGGCACTCAGCCCTTGGAGGTGCTGGAGG
CTGTGCAGCGCAGCCTGGTGTGCAGCGACCACAGACCTGGGCTGACTGCGTGACCTGGGCTGCCACCCTGGC
ACACCCAGTACTCGAACAACATCCGGCAGCTGCTGCACAACTTCCCTCCTGACCAGCTCACAAGCTCAGGAGCGC
CGTTCTGGTCTGGGCCCCAACGCTGTCCACACCCGCTCACCTTTGATGTCAACAATCCCCCTGCATCTGGACTATG
TGATGGCTGCTGCCAACCTGTTTGGCCAGACCTACGGGCTGACAGGCTCTCAGGACCGAGCTGCTGTGGCCACAT
TCCTGCAGTCTGTGCAGGTCCCCGAATTCACCCCCAAGTCTGGCGTCAAGATCCATGTTTCTGACCAGGAGCTGC
AGAGCGCCAATGCCTCTGTTGATGACAGTCGTCTAGAGGAGCTCAAAGCCACTCTGCCCAGCCCAGACAAGCTCC
CTGGATTCAAGATGTACCCATTGACTTTGAGAAGGATGATGACAGCAACTTTTCATATGGATTTCATCGTGGCTG
CATCCAACCTCCGGGCAGAAAATATGACATTCTTCTGACAGCCGGCACAAGAGCAAGCTGATTGCAGGGAAGA
TCATCCCAGCCATTGCCACGACCACAGCAGCCGTGGTTGGCCTTGTGTGTCTGGAGCTGTACAAGGTTGTGCAGG
GGCACCAGACAGCTTGACTCCTACAAGAATGGTTTCTCAACTTGGCCCTGCCTTTCTTTGGTTTCTCTGAACCCC
TTGCCGACACAGTCACCAGTACTATAACCAAGAGTGGACATTGTGGGATCGCTTTGAGGTACAAGGGCTGCAGC
CTAATGGTGAGGAGATGACCCCTCAAACAGTTCCTCGACTATTTTAAGACAGAGCACAAATTAGAGATCACCATGC
TGTCCCAGGGCGTGTCCATGCTCTATTCTTCTTCATGCCAGCTGCCAAGCTCAAGGAACGGTTGGATCAGCCGA
TGACAGAGATTGTGAGCCGTGTGTGGAAGCGAAAGCTGGGCGGCCACGTGCGGGCGCTGGTGGCTTGGCTGTGCT
GTAACGACGAGAGCGGCGAGGATGTGAGGTTCCCTATGTCCGATACACCATCCGCTGACCCCCGTCTGCTCTCT
AGGCTGGCCCCCTTGTCCACCCCTCTCCACACCCCTTCCAGCCAGGGTTCCCATTTGGCTTCTGGCAGTGGCCCCA
ACTAGCCAAGTCTGGTGTTCCTCATCATCCCCCTACCTGAACCCCTCTTGCCACTGCCTTCTACCTTGTGTTGAA
ACCTGAATCCTAATAAAGAATTAATAACTCCCAAAAAAAAAAAAA

6680/6881
FIGURE 6168

MSSSPLSKKRRVSGPDPKPGSNCSPAQSVLSEVPSVPTNGMAKNGSEADIDEGLYSRQLYVLGHEAMKRLQTSSV
LVSGLRGLGVEIAKNIILGGVKAVTLHDQGTAWADLSSQFYLREEDIGKNRAEVSQPRLAELNSYVPVTAYTGP
LVEDFLSGFQVVVLNTNPLEDQLRVGEFCHNRGIKLVVAGTRGLFGQLFCDFGEEMILTDSNGEQPLSAMVSMVT
KDNPGVVTCLDEARHGFESEGDFVSFSEVQGMVELNGNQPMIEIKVLGPYTFISICDTSNFSYIRGGIVSQVKVPKK
ISFKSLVASLAEPDFVVTDFAKFSRPAQLHIGFQALHQFCAQHGRPPRPRNEEDAAELVALAQAVNARALPAVQQ
NNLDEDLIRKLAYVAAGDLAPINAFIGGLAAQEVKACSGKFMPIQWLYFDALECLPDKEVLTEDEKCLQRQNR
YDQGVAVFGSDLQEKLGKQKYFLVGAGAIGCELLKNFAMIGLCGEGGEIIVTDMDTIEKSNLNRQFLFRPVDVT
KLKSDTAAAVRQMNPHIRVTSHQNRVGPDTERIYDDDFQNLGVDANALDNVDARMYMDRRCVYYRKPLLESQT
LGTKGNVQVVIPFLTESYSSSQDPPEKSIPICTLKNFPNAIEHTLQWARDEFEGFLFKQPAENVNQYLTDPKFVER
TLRLAGTQPLEVLEAVQSRSLVLRPQTWADCVTWACHHWHTQYSNNIRQLLHNFPDQLTSSGAPFWSGPKRCPH
PLTFDVNNPLHLDYVMAAANLFAQTYGLTGSQDRAAVATFLQSVQVPEFTPKSGVKIHVSDQELQSANASVDDSR
LEELKATLPSPDKLPGFKMYPIDFEKDDDSNFHMDFIVAASNLRANENYDIPSADRHKSKLIAGKIIPAIATTTAA
VVGLVCELYKVVQGHRQLDSYKNGFLNLALPFFGFSEPLAAPRHQYYNQEWTLWDRFEVQGLQPNGEEMTLKQF
LDYFKTEHKLEITMLSQGVSMLYSFFMPAAKLKERLDQPMTEIVSRVSKRKLGRHVRLVLELCCNDESGEDVEV
PYVRYTIR

6681/6881
FIGURE 6169

CAGCTGCTGCTGCGGCGGCTGTGGCGGCGGCAGCGGCGGTGACTGAGGATAGAGAGCCACAGCACGAGGAGCTGC
CAGGCCTGGACAGCCAGTGGCGCCAGATAGAAAACGGCGAGAGTGGGCGAGAACGTCCACTGCGGGCCGGCGAAA
GCTGGTTCCCTTGTGGAGAAGCACTGGTATAAGCAGTGGGAGGCATACGTGCAGGGAGGGGACCAGGACTCCAGCA
CCTTCCCTGGCTGCATCAACAATGCCACACTCTTTCAAGATGAGATAAACTGGCGCCTCAAGGAGGGACTGGTGG
AAGGCGAGGATTATGTGCTGCTCCCAGCAGCTGCTTGGCATTACCTGGTCAGCTGGTATGGTCTAGAGCATGGCC
AGCCACCCATTGAACGCAAGGTCATAGAGCTGCCAACATCCAGAAGGTCGAAGTGTACCCAGTAGAACTGCTGC
TTGTCCGGCACAATGATTTGGGCAAATCTCACACTGTTTCAGTTCAGCCATACCGATTCTATTGGCCTAGTATTGC
GCACAGCTCGGGAGCGGTTTCTGGTGGAGCCCCAGGAAGACACTCGGCTTTGGGCAAGAACTCAGAAGGCTCTT
TGGATAGGTTGTATGACACACACATCACGGTTCTCGATGCGGCCCTTGAGACTGGGCAGTTGATCATCATGGAGA
CCCAGAAAGATGGCACTTGGCCAGCGCACAGCTGCATGTCATGAACAACAACATGTCGGAAGAGGATGAGG
ACTTCAAGGGTCAGCCAGGCATCTGTGGCCTCACCAATCTGGGCAACACGTGCTTCATGAACTCGGCCCTGCAGT
GCCTCAGCAATGTGCCACAGCTCACCGAGTACTTCTCAACAACCTGCTACCTGGAGGAGCTCAAACTTCGCAACC
CACTGGGCATGAAGGGTGAGATCGCAGAGGCCATATGCAGACCTGGTGAAGCAGGCGTGGTCTGGCCACCACCGCT
CCATTGTGCCACATGTGTTCAAGAACAAGGTTGGCCATTTTGCATCCCAATTTCTGGGCTACCAGCAGCATGACT
CTCAGGAGCTGCTGTCACTTCTCTGGACGGGCTGCATGAGGACCTTAATCGGGTGAAGAAGAAGGAGTATGTGG
AGCTGTGCGATGCTGCTGGGCGACCGGATCAGGAGGTGGCACAGGAGGCATGGCAAAAACCACAAACGGCGGAACG
ATTCTGTGATCGTGGACACTTTCCACGGCCTCTTCAAGTCCACGCTGGTGTGCCCCGATTGTGGCAATGTATCTG
TGACCTTCGACCCCTTCTGCTACCTCAGTGTTCACCTGCCTATCAGCCACAAGAGGGTCTTGGAGGTCTTCTTTA
TCCCCATGGATCCGCGCCGCAAGCCAGAGCAGCACCGGCTCGTGGTCCCCAAGAAAGGCAAGATCTCGGATCTAT
GTGTGGCTCTGTCCAAACACACGGGCATCTCGCCAGAGAGGATGATGGTGGCTGATGTCTTCAGTCACCGCTTCT
ATAAGCTCTATCAGCTAGAGGAGCCTCTGAGCAGCATCTTGGACCGTGATGATATCTTCGTCTATGAGGTGTCAG
GTCGATTGAGGCCATTGAGGGCTCAAGAGAGGACATCGTGGTTCTGTCTACCTGCGGGAGCGCACCCCTGCCC
GTGACTACAACAACCTCTACTACGGCCTGATGCTTTTGGACACCCCTCCTGGTATCAGTGCCCCGGGACCGCT
TCACCTGGGAGGGCCTGTATAACGTCTGTATGTACCGGCTCTCACGCTACGTGACCAAACCAACTCAGATGATG
AGGACGATGGGGATGAGAAAGAAGATGACGAGGAGGATAAAGATGACGTCCCTGGGCCCTCAACTGGGGGACGCC
TCCGAGACCCCTGAGCCAGAGCAGGCTGGGCCCAGCTCTGGAGTCACGAACAGGTGCCCGTTCTCTCTGGACAATT
GCCTTGGCACATCTCAGTGGCCCCCAAGGCGACGACGCAAGCAGCTGTTTACCCTGCAGACGGTGAACCTCAATG
GGACCAGCGACCGCACAACTCCCTGAAGAAGTCCATGCCAGCCGTACATTGCTATCGACTGGGAGCCAGAGA
TGAAGAAGCGTTACTATGACGAGGTAGAGGCTGAGGGCTACGTGAAGCATGACTGCGTCGGGTACGTGATGAAGA
AGGCTCCCGTGCGGCTGCAGGAGTGCAATTGAGCTCTTACCCTGTGGAGACCCCTGGAGAAGGAAAACCCCTGGT
ACTGCCCTTCTGCAAGCAGCACCAGCTGGCAACCAAGAAGCTGGACCTGTGGATGCTGCCGGAGATTCTCATCA
TCCACCTGAAACGCTTTTCTACACCAAGTTCTCCGAGAGAAGCTGGACACCCCTCGTGGAGTTTCTATCCGGG
ACCTGGACTTCTCTGAGTTTGTCTATCCAGCCACAGAATGAGTCGAATCCGGAGCTGTACAAATATGACCTCATCG
CGGTTTCCAACCATTAAGGGGCGATGCGTGATGGACACTACACAACATTTGCCCTGCAACAAGGACAGCGGCCAGT
GGCACTACTTTGATGACAACAGCGTCTCCCTGTCAATGAGAATCAGATCGAGTCCAAGGCAGCCTATGTCTCT
TCTACCAACGCCAGGACGTGGCGCGACGCTGTGTCCCCGGCCGGCTCATCTGGCGCCCCAGCCTCCCTGCCT
GCAGCTCCCCACCCAGCTCTGAGTTTATGGATGTTAATTGAGAGCCCTGGGTCTTGCCACAGAAAAAAAAAAAAA
AAAGCCCTCTCTGCAATCTCGCTTCTCGTGTCCGCCCCGCTTCTCTTATTCTGTGTTAGGTGCCCCCGCCAGGCAT
TGCAGGCTTAGTCTGGCTACTGTTCTCTGTGCCGCTGCATCGCTCTCTCCCGGGAAGAAGAGGTCGTGTCTC
CTCCTAGCAGTGCGCGCCCCGCCTGTGTTTGGCCCTTCCAGCAGTGACCTCCCTTCTAGTCTTTATTTATGGTCG
TGCCCTTCCCTCTCCTCAGCCCAGAGTGTTCTGCGTGGGTGGTGATGGGGGTTACCTGAACACAGAGTGATTTT
TCTTATTGAGGCCCTGTACCTTCTGCTGTGTGTGTATATATAAAGCACCAGTCTGCTCCCC

6682/6881
FIGURE 6170

TGACCCAATAAGGGTGGAAAGGCTGAGTCCCGCAGAGCCAATAACGAGAGTCCGAGAGGCGACGGAGGCGGACTCT
GTGAGGAAACAAGAAGAGAGGCCCAAGATGGAGACGGCGGCGGCTGTAGCGGCGTGACAGTGAAGCTGAGACCTT
GGCACTCAAGAGTGAGACAAGCAACAGGAGGGCCCTGAGCAGAGAAGGAACTGGAAGGACTTCAGATGTGAGCAGG
ATCTCTTGGACTGTGCTGTGAAAATTAGGCTGCAGGGGGCGACAGGAGCCTGGACTTTGAATTTTATTTTGTCCC
CTGCCACTTTGCTTCTAGACTATCATTATTGGACCTCTGAATTCTTGTCTGCCTTCTTGTAGGAGCCCCATGGCA
CCTGCCCAGCCCCACCTCAGCCCATCTTGACAAAATCTAAGGCTCCATGGAGCCACCACGGGGCCCCCTGCCAA
TGGGGCCGAGCCATCCCGGGCAGTGGGCACCGTCAAAGTATACCTGCCCAACAAGCAACGCACGGTGGTGACTGT
CCGGGATGGCATGAGTGTCTACGACTCTCTAGACAAGGCCCTGAAGGTGCGGGGTCTAAATCAGGACTGCTGTGT
GGTCTACCGACTCATCAAGGGACGAAAGACGGTCACTGCCTGGGACACAGCCATTGCTCCCCTGGATGGCGAGGA
GCTCATTGTGCGAGGTCTTGAAGATGTCCCGCTGACCATGCACAATTTGTACGGAAGACCTTCTTCAGCCTGGC
GTTCTGTGACTTCTGCCTTAAGTTTCTGTTCCATGGCTTCCGTTGCCAAACCTGTGGCTACAAGTTCCACCAGCA
TTGTTCTCCAAGGTCCCCACAGTCTGTGTTGACATGAGTACCAACCGCCAACAGCCCTCAAGGTTCTACCACAG
TGTCCAGGATTTGTCCGGAGGCTCCAGACAGCATGAGGCTCCCTCGAACCGCCCCCTGAATGAGTTGCTAACCCC
CCAGGGTCCCAGCCCCCGCACCCAGCACTGTGACCCGGAGCACTTCCCCTTCCCTGCCCCAGCCAATGCCCCCT
ACAGCGCATCCGCTCCACGTCCACTCCCAACGTCCATATGGTCAGCACCACGGCCCCCATGGACTCCAACCTCAT
CCAGCTCACTGGCCAGAGTTTTCAGCACTGATGCTGCCGGTAGTAGAGGAGGTAGTGATGGAACCCCCCGGGGAG
CCCCAGCCCAGCCAGCGTGTCTCGGGGAGGAAGTCCCCACATTCCAAGTCACCAGCAGAGCAGCGGAGCGGAA
GTCCTTGGCCGATGACAAGAAGAAAGTGAAGAACCTGGGGTACCGGGACTCAGGCTATTACTGGGAGGTACCACC
CAGTGAGGTGCAGCTGCTGAAGAGGATCGGGACGGGCTCGTTTGGCACCCTGTTTCGAGGGCGGTGGCATGGCGA
TGTGGCCGTGAAGGTGCTCAAGGTGTCCCAGCCACAGCTGAGCAGGCCAGGCTTTCAAGAATGAGATGCAGGT
GCTCAGGAAGACGCGACATGTCAACATCTTGCTGTTTATGGGCTTCATGACCCGGCCGGGATTGGCCATCATCAC
ACAGTGGTGTGAGGGCTCCAGCCTCTACCATCACCTGCATGTGGCCGACACACGCTTCGACATGGTCCAGCTCAT
CGACGTGGCCCGGCAGACTGCCCAGGGCATGGACTACCTCCATGCCAAGAACATCATCCACCGAGATCTCAAGTC
TAACAACATCTTCTACATGAGGGGCTCACGGTGAAGATCGGTGACTTTGGCTTGGCCACAGTGAAGACTCGATG
GAGCGGGGGCCAGCCCTTGAGCAGCCCTCAGGATCTGTGCTGTGGATGGCAGCTGAGGTGATCCGTATGCAGGA
CCCGAACCCCTACAGCTTCCAGTCAGACGTCTATGCCTACGGGGTGTGCTCTACGAGCTTATGACTGGCTCACT
GCCTTACAGCCACATTGGCTGCCGTGACCAGATTATCTTTATGGTGGGCGGTGGCTATCTGTCCCCGGACCTCAG
CAAAATCTCCAGCAACTGCCCCAAGGCCATGCGGCGCCTGCTGTCTGACTGCCTCAAGTTCCAGCGGGAGGAGCG
GCCCCCTTCCCCCAGATCCTGGCCACAATTGAGCTGCTGCAACGGTCACTCCCCAAGATTGAGCGGAGTGCCTC
GGAACCTCTCTTGACCGCACCCAGGCCGATGAGTTGCCTGCCTGCTACTCAGCGCAGCCCGCCTTGTGCCTTA
GGCCCCGCCAAGCCACCAGGGAGCCAATCTCAGCCCTCCACGCCAAGGAGCCTTGCCCACCAGCCAATCAATGT
TCGTCTCTGCCCTGATGCTGCCTCAGGATCCCCATTCCCCACCCTGGGAGATGAGGGGGTCCCCATGTGCTTTT
CCAGTTCTTCTGGAATTGGGGGACCCCGCCAAAGACTGAGCCCCCTGTCTCCTCCATCATTGGTTTCTCTTG
GCTTTGGGGATACTTCTAAATTTTGGGAGCTCCTCCATCTCCAATGGCTGGGATTTGTGGCAGGGATTCCACTCA
GAACCTCTCTGGAATTTGTGCCTGATGTGCCTTCCACTGGATTTTGGGGTCCCGACCCCCATGTGGATTTTGG
GGGGTCCCTTTTGTGTCTCCCCGCCATTCAAGGACTCCTCTCTTTCTTACCAAGAAGCACAGAATTCTGCTGG

6683/6881
FIGURE 6171

MEPPRGPPANGAEPsRAVGTVKVYLPNKQRTVVTVRDGMSVYDSLDKALKVRGLNQDCCVVYRLIKGRKTVTAWD
TAIAPLDGEELIVEVLEDVPLTMHNFVRKTFEFLAFCDCLKFLFHGFRQCQTCGYKFHQHCSSKVPTVCVDMSTN
RQQPSRFYHSVQDLGGSRQHEAPSNRPLNELLTPQGSPSPRTQHCDPEHFPPFAPANAPLQRIIRSTSTPNVHMVS
TTAPMDSNLIQLTGQSFSTDAAGSRGSGSDGTPRGSPSPASVSSGRKSPHSKSPAERERKSLADDDKKVKNLGYR
DSGYWVEVPPSEVQLLKRI GTGSFGTVFRGRWHGDVAVKVLKVSQPTAEQAQAFKNEMQVLRKTRHVNILLFMGF
MTRPGFAIITQWCEGSSLYHHLHVADTRFDMVQLIDVARQTAQGMDYLHAKNI IHRDLKSNNIFLHEGLTVKIGD
FGLATVKTRWSGAQPLEQPSGSLWMAAEVIRMQDPNPYSFQSDVYAYGVVLYELMTGSLPYSHIGCRDQIIFMV
GRGYLSPDL SKISSNCPKAMRRLSDCLKFQREERPLFPQILATIELLQSRSLPKIERSASEPSLHRTQADELPAC
LLSAARLVP

6684/6881
FIGURE 6172

CATCGCCGCAGATCCAGCGCCCAGAGAGACACCAGAGAACCCACCATGGCCCCCTTTGAGCCCCTGGCTTCTGGC
ATCCTGTTGTTGCTGTGGCTGATAGCCCCAGCAGGGCCTGCACCTGTGTCCCACCCACCCACAGACGGCCTTC
TGCAATTCCGACCTCGTCATCAGGGCCAAGTTCGTGGGGACACCAGAAGTCAACCAGACCACCTTATACCAGCGT
TATGAGATCAAGATGACCAAGATGTATAAAGGGTTCCAAGCCTTAGGGGATGCCGCTGACATCCGGTTCGTCTAC
ACCCCGCCATGGAGAGTGTCTGCGGATACTTCCACAGGTCCACAACCGCAGCGAGGAGTTTCTCATTGCTGGA
AAACTGCAGGATGGACTCTTGACATCACTACCTGCAGTTTTGTGGCTCCCTGGAACAGCCTGAGCTTAGCTCAG
CGCCGGGGCTTCACCAAGACCTACACTGTTGGCTGTGAGGAATGCACAGTGTTTCCCTGTTTATCCATCCCCTGC
AAACTGCAGAGTGGCACTCATTGCTTGTGGACGGACCAGCTCCTCCAAGGCTCTGAAAAGGGCTTCCAGTCCCGT
CACCTTGCCTGCCTGCCTCGGGAGCCAGGGCTGTGCACCTGGCAGTCCCTGCGGTCCCAGATAGCCTGAATCCTG
CCCGGAGTGGAAGCTGAAGCCTGCACAGTGTCACCCTGTTCCCACTCCCATCTTTCTTCCGGACAATGAAATAA
AGAGTTACCACCCAGC

6685/6881
FIGURE 6173

ACATTGGGCTCCTCCTCCTCGGGCCACGTGAGCTGTAGGGAAACGCAGGGGCGGCTTCTAGGTGCTGCCGCCGC
CACCGCCACCACCACCTCCACCGCCGCTCGGAACCCAGGCCTGGGGGGCGGTGGGGCCGCGTATGGAGCCCCCG
CCCCCGGAGCTGCCAACATTGCCAACGCCACCGCCACGCTACACACAGGTACCCCTGGGATGGCGTGAGCACTC
CCCCAGCGATGGACCCATCTGTGACGCTGTGGCAGTTTCTGCTGCAGCTGCTGAGAGAGCAAGGCAATGGCCACA
TCATCTCCTGGACTTCACGGGATGGTGGTGAATTCAAGCTGGTGGATGCAGAGGAGGTGGCCCCGGCTGTGGGGGC
TACGCAAGAACAAGACCAACATGAATTACGACAAGCTCAGCCGGGCCTTGCGGTACTACTATGACAAGAACATCA
TCCGCAAGGTGAGCGGCCAGAAGTTCGTCTACAAGTTTGTGTCTACCTGAGGTGCGAGGGTGTCTCACTGAGG
ACTGCCCCCCCCAGCCAGAGGTGTCTGTTACCTCCACCATGCCAAATGTGGCCCCCTGCTGCTATACATGCCGCC
CAGGGGACACTGTCTCTGGAAGCCAGGCACACCCAAGGGTGCAGGAATGGCAGGCCCAGGCGGTTTGGCACGCA
GCAGCCGGAACGAGTACATGCGCTCGGGCCTCTATTCCACCTTACCATCCAGTCTCTGCAGCCGCAGCCACCCC
CTCATCTCTCGGCTGCTGTGGTGTCTCCCAAGTGCAGCTCCTGCAGGGGCAGCAGCGCCCCCTCGGGGAGCAGGA
GCACCAAGTCCAAGCCCCCTTGAGGGCTGTCTGGAGGCTGAAGAGGCCGCTTGCCTCTGCAGGTATCTTGACCC
CGCCCCGAGGCCCAAACCTGAAATCGGAAGAGCTTAATGTGGAGCCGGGTTTGGGCCGGGCTTTGCCCCAGAAG
TGAAAGTAGAAGGGCCCAAGGAAGAGTTGGAAGTTGCGGGGAGAGAGGGTTTGTGCCAGAAACCACCAAGGCCG
AGCCAGAAGTCCCTCCACAGGAGGGCGTGCCAGCCCGGCTGCCCGCGGTTGTTATGGACACCGCAGGGCAGGCGG
GCGGCCATGCGGCTTCCAGCCCTGAGATCTCCAGCCGCAGAAGGGCCGGAAGCCCCGGGACCTAGAGCTTCCAC
TCAGCCCGAGCCTGTAGGTGGGCCGGGACCCGAACGGACCCAGGATCGGGAAGTGGCTCCGGCCTCCAGGCTC
CGGGGCCGGCGCTGACCCCATCCCTGCTTCTACGCATACATTGACCCCGGTGCTGCTGACACCCAGCTCGCTGC
CTCCTAGCATTTACTTCTGGAGCACCTGAGTCCATTGCGCCCCGTAGCCCGGCCAAGCTCTCCTTCCAGTTTC
CATCCAGTGGCAGCGCCAGGTGCACATCCCTTCTATCAGCGTGGATGGCCTCTCGACCCCCGTGGTGTCTCTCC
CAGGGCCCCAGAAGCCATGACTACTACCACCACCACCACCACCCCTTCTGGGGTCACTCCATCCATGCTCTCTCC
AGCCAGCCATCTCAAGGAGAAACATAGTTCAACTGAAAGACTCATGCTCTGATTGTGGTGGGGTGGGGATCCTTG
GGAAGAATTACTCCCAAGAGTAACCTCTCATTATCTCCTCCACAGAAAACACACAGCTTCCACAACCTCTCTGTTT
TCTGTCAGTCCCCCAGTGGCCGCCCTTACACGTCTCCTACTTCAATGGTAGGGGCGGTTTATTTATTTATTTTTT
GAAGGCCACTGGGAGGAGCCTGACCTAACCTTTTAGGGTGGTTAGGACATCTCCCCACCTCCCCACTTTTTTCC
CCAAGACAAGACAATCGAGGTCTGGCTTGAGAACGACCTTTCTTTCTTTATTTCTCAGCCTGCCCTTGGGGAGAT
GAGGGAGCCCTGTCTGCGTTTTTGGATGTGAGTAGAAGAGTTAGTTTGTTTTGTTTTATTATTCTGGCCATACT
CAGGGGTCCAGGAAGAATTGTACCATTTAATGGGTTGGGAGTCTTGCCCAAGGAAGAATCACACCCTTGAATA
GAAATTTCCACCTCCCCAACCTTTCTCTCAGACAGCTTATCCTTTTCAACCAACTTTTGGCCAGGGAGGAATGT
CCCTTTTGTCTTCCCCCTGAGAAGCCATTCTTTGTCTGCCAACCTCCCTGGGGTCCCTGCCTGTTTCTCTCCAA
TGGAGGGTTTTTTTGGGGGGTGGTCCCCGTCTGGGGGGCCCTCCAGCCAGTACTCCAGGTCTCCCTGTCTCTCC
CCCCTGCCATTTTGATAGTATAATCTATTTTTTAAATGGGGCTTTTCAATAGGGGAGAGGGAGTCTCTCTCCT
ATATTTGGTGGGGTGGGTGGGAAGGAAGGGATTTGGGGGGGAATCTTCTGCGCCTCCCCACTCCAAGTGTTT
ATTTTTGATACAAAACATGAATTTTCAAGTTCCCTCCCTCCAGCCCCCAATTTCTGCGGGCGGGTACAAAGGA
CCCTTTCAATGTCCCTGGAGTTGGGAGGGAGGAATGGGGGACATAAAGCCTGTCTGTCTCTATTCTAGGCAAGA
GAGAGTGGGTTCAAAAGACTCCTGGGCTCACCTGTTAGCGCTGGCCAGCCAGGCCTGGGACCTGGGGGTTGG
TGATTTGGGGGACAGTGCTACACTCGTCTCCACTGTTTGTTTTACTTCCCCAAATGGACCTTTTTTTTTTCTAA
AGAGTCCCAGAGAATGGGGAATTGTTCTGTAAATATATATTTTTTCAAAGTGA

6686/6881
FIGURE 6174

CGGAAGCCGCGGTTCTTACCAACCGTTCTTATTGCTGGCGGCCTGAGGAGCCCATCATGGCGACGCCCCCTAAGC
GGCGGGCGGTGGAGGCCACGGGGGAGAAAGTGCTGCGCTACGAGACCTTCATCAGTGACGTGCTGCAGCGGGACT
TGCGAAAGGTGCTGGACCATCGAGACAAGGTATATGAGCAGCTGGCCAAATACCTTCAACTGAGAAATGTCATTG
AGCGACTCCAGGAAGCTAAGCACTCGGAGTTATATATGCAGGTGGATTTGGGCTGTAACTTCTTCGTTGACACAG
TGGTCCCAGATACTTCACGCATCTATGTGGCCCTGGGATATGGTTTTTTCCTGGAGTTGACACTGGCAGAAGCTC
TCAAGTTCATTGATCGTAAGAGCTCTCTCCTCACAGAGCTCAGCAACAGCCTCACCAAGGACTCCATGAATATCA
AAGCCCATATCCACATGTTGCTAGAGGGGCTTAGAGAACTACAAGGCCTGCAGAATTTCCCAGAGAAGCCTCACC
ATTGACTTCTTCCCCCATCCTCAGACATTAAAGAGCCTGAATGCCTTT

6687/6881
FIGURE 6175

MATPPKRRAVEATGEKVLRYETFISDVLQRDLRKVLDHRDKVYEQLAKYLQLRNVIERLQEAKHSELYMQVDLGC
NFFVDTVVPDTSRIYVALGYGFFLELTAEALKFIDRKSSLLTELSNSLT KD SMNKAHIHMLLEGLRELOGLQN
FPEKPHH

6688/6881
FIGURE 6176

GCCTGGAATAGCCTGGCTACTACCCCTGCACCTGTTCCCTGCTGTCCCCAGGCCTCTCTGCCTGAATCTGCCTC
TCTCTGCCTCTTTTCTCCTGTCCCTCCAGGAGTCTCTCTGCCTCAACCACTCTCTCTGCCCTTCATCTCTCTGA
GCTGGTGTGTCTGGTCTACCCCTCTGTTTGGGGAGCTGTCTGGCTCTGTCCCCACCTCTTGGCCAGCCTGTGTC
TCCTGTCTATGACTGAGCCCAATTGCCTGTTGCCTTTCTGCAGGTGTTTCCACGAGCCTATCCCTACCCACCTGT
TTGTTTCTGAGTCTGCCTGTGTGTCCCTTTCTCCCTGTCTCTGCCTGTCTTCCAAGCTCCCCTAGCATCCCCTCC
TCCCGCCCATCTGTCTTTCTGTCCCTTCTGTGGTCTGTCTGTTTCTGTGCTGTTTCTCATGCCTGCTTTTCTTGT
AACTTCAGTTTCTCCTACTCTCTCTCTGTCTCTCTCTGCACCTTTTTCTGCCATCCATCCCATCCTGCTGTCCGT
CTGCTCTGTGAGTCCATCCCTCTGTCTGCCTGTCACTCTCTCTAGCTGTGGGTCTACACCCTCAATCTTTCAGG
CCATTTCCCCCACCATCAACACACAAACAAACCGCTGTCTCCCTCCAAGTGGGTCCAGATAGGGGGCGCCCTTC
TCCACCTCTTCCCCCGCCAGGGCCAGAAGGAGGGAAACGAAATTAACATTTCTTCTCAGGAAAAAAA
AAAAGTACCGCTCCAGAGCAGGAGCCTAGGCAGCCGAGAGGGTGCCGAACCTGAGTCTGAGTTGCGGCCACTTC
AGGAGCTGAGAGGAGCAGGATGGAAGTGCAGGATCCAAAGATGAATGGAGCCCTCCCTTCGGATGCTGTGGGCTA
CAGGCAAGAACGTGAGGGCTTCTGCCCAGTCTGTGGTCTGCTCCTGGGAGCAAGCCGGTCCAGTTTATGGATTT
CGAGGGGAAGACATCGTTTGAATGTCTAGTGTTCACCTCAGCAACGCCATCATGGGCAGCGGCATCCTGGGGCT
GGCCTATGCCATGGCCACACGGGGTTCATCTTCTTCTGGCCCTGCTGCTGTGCATTGCGCTTCTGTGCTCCTA
CTCCATCCACCTCCTGCTGACCTGTGTGGTATTGCAGGCATCCGAGCCTATGAGCAGCTGGGACAGAGGGCATT
CGGGCCTGCGGGGAAGGTAGTGGTGGCCACAGTCTGTCTGCACAATGTTGGGGCCATGTCCAGTTACCTGTT
CATCATCAAATCTGAGCTCCCCCTGGTTATCGGCACCTTCTGTACATGGACCCCGAGGGGGACTGGTTCTTGAA
GGGAAACCTCCTCATCATCATCGTCAGTGTGTTAATCATCCTGCCCTCGCCCTCATGAAACACTTGGGCTACCT
GGGGTACACCAGTGGTCTCTCTCTGACCTGCATGCTGTTTTTCTTGTTCGGTTCATCTACAAGAAGTTCCAAC
TGGCTGTGCTATAGGCCACAATGAAACAGCAATGGAGAGTGAAGCTCTCGTGGGACTCCCCAGCCAAGGACTCAA
CAGCAGCTGTGAGGCCAGATGTTTACAGTTGACTCACAGATGTCTTACACAGTGCCCATATGGCTTTTGCTTT
TGTCTGCCACCCTGAGGTGCTGCCCATCTATACGGAGCTCTGCCGGCCCTCCAAGCGCAGGATGCAGGCCGTGGC
CAACGTGTCCATTGGGGCCATGTTCTGCATGTATGGGCTCACAGCAACCTTTGGATACCTCACCTTCTACAGCAG
TGTGAAGGCGGAGATGCTGCACATGTACAGCCAGAAGGACCCGCTCATCCTCTGTGTGCGCTGGCCGTGCTGCT
CGCGGTGACCCTCACTGTGCCAGTCTGTGCTGTTCCCTATCCGCCGGGCCCTGCAGCAGCTGCTTTTCCCAGGCAA
GGCCTTCAGCTGGCCACGACATGTGGCCATAGCTCTGATCCTGCTTGTGTTTGGTCAATGTCCTTGTCTCTGTG
GCCAACCATCCGGGATATCTTTGGAGTTATCGGGTCCACCTCAGCCCCCAGCCTCATCTTCATCCTCCCCAGCAT
CTTCTACCTCCGCATTGTACCTCTGAGGTGGAGCCTTTCTTATCCTGGCCCAAGATCCAGGCCCTGTGCTTTGG
AGTCTTGGGAGTCTCTTTCATGGCCGTGAGTCTAGGCTTTATGTTTGCCAACTGGGCCACAGGCCAGAGCCGAT
GTCTGGACACTGATCAGGCCCTGCTGGCCAGGTCCCTGTGCGCATGCACATGGAGGGGTGAGGGCCGCTCCCTA
GGGTCCCTCCTGCCCAACATGTGGAGGTGGCTGGTTCCCATGAACGTGGTTGTGAGAGGCGGGGACAGCAGAGG
CTGCAGACTGGCCACTTCCCTCCTCCCCAGGGATGCCAAGCTTGGATCATGGCCCTAATCCCAACCCCAACCC
ATGGGAGGAGGAGGAGGAGGAAGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
GTGGAGCCTTTGCCAGCCAGTCTCTCTGCTCCTCTGCTGGCTGAAGCTGTTTGTGAGGATTACCCTCGGGCTA
AAGAGGAAAAATAAAGATGTTGAGCTACC

6689/6881
FIGURE 6177

CCTGTTTTTTGTGCTCCTCCGAGCTCGCTGTTTCGTCCGGGTTTTTTACGTTTTTAATTTCCAGGACTTGAAGTGCC
ATGTCCTCTGAAGAAGGAAAGCTCTTCGTGGGAGGGCTCAACTTTAACACCGACGAGCAGGCACTGGAAGACCAC
TTCAGCAGTTTTCGGACCTATCTCTGAGGGTGAGACGGGCCATACTCACAAATGGGGGTTGGTGAGAGAAAGTCTGG
GATCCTTGCAATTTCAAGGAGTATTAAGTGAAGGTTAGGACCCACGCCCTCCAAATTTCTTTTTCTTCCTAAGCCTA
TGGTGTAGACTAAGGATGAGGGGAAGCGTCTTTGGGATTAGTGGGAGCGCTCCGTTTTCCCTACCTATGCCATCT
CCTTTTCCGGCCACCCTTTGCTACTTAACCTTTGGGGTACTGACTGGTCCACATTGCTCCATCTTCTCTCCCTCT
CACAGTGGTCGTTGTCAAGGACCGGAGACTCAGCGGTCCAGGGGTTTTGGTTTCATCACCTTCACCAACCCAGA
GCATGCTTCAGTTGCCATGAGAGCCATGAACGGAGAGGTGGGGCCTCCTATCTGCAGAGGGACCTTGTCCTCATC
TGCGGCTTCCTTCATTCTTTTTGTTTTTCCCTCTGTGTCTGCTCGGGGCAGCGTGGCCACCAAGCCCCGCAGTGC
CCACTCACAGGAGCATGACTGCCTTTTGTTCAGGGGGTGGAGGGCAGCGGCAGACAGAGCCTGGCCGCCTGGGA
GGCGACGACTGGTCTGTCATGAGGCCGAGAAGCCACCTGTGGATGGTTGACCTGCCTTGGGCTTAGGTAGTAGAG
TCTGCAGACCTGTGGGCCTGGCCCCGAGAGGACCTCGTGAGTCTTCTGACATGGACTCTGAAGCCTCAAACCAAG
AGAGGTGTCTGTCTAGCCCTGATAGTCGGGCAGCTTAGAGGAGTGGGGAGGAGAACTCAGCCTGAGTTCAGTCAA
GATGTAAGTAGTAGCAAGGGGAACATGGTGCATTTCAGGTCAATTTGTGTGGGATTCTATAGCTCCTGATGAAGCC
ATTCTGGGGTAAAGGAGCTTATTCTGGAACATGGCACCCAGAACCCTGGTGCCCGAGCAGGAATTTTTGGCCTCTTT
TGCCCACTTACCCTTGCTGCTCTTCCCTCACCATTGCCCTGACTGACTGCCAACCCTCATCTTGTGTCTCCC
ACACTTAGTCTCTGGATGGTCGTGATCAGATCCGTGTGGATCATGCAGGCAAGTCTGCTCGGGGAACCAGAGGAGGTG
GCTTTGGGGCCCATGGGCGTGGTGCAGCTACTCTAGAGGTGGTGGGGACCAGGGCTATGGGAGTGGCAGGTATT
ATGACAGTCGACCTGGAGGGTATGGATATGGATATGGACGTTCCAGAGACTATAATGGCAGAAACCAGGGTGGTT
ATGACCCTACTCAGGAGGAAATTACAGAGACAATTATGACAACTGAAATGAGACATGCACATAATATAGGTGAG
ACTTGGATATCGGCATTGAGTGAACCTGTTTGTACACTCTGTGATGACCCTCTCACCTTTTCTGGCAAGACTGC
TCTGCATTTCTGCTGCCCTCATACCTCAGCCAGCCAACTACCAAACTTCCTAGCTAGGCCTTCCTTGCTCTCA
GGTGCATATCAGAGCAAGTTTGCTAGGGGGTGGGATCTGAAAACCCATCTCCTATAATCTTCTACTCTTGTGTGG
GATGGAGGAAATGAAGGTGTGTCCCTGTTGTCCAACCCTCAGCATCTTCATCAGCTCTAGGAGGTGAGCATGTTG
TCAGCTGTTACTTCATGACATCACAATTCTCCCCCTCTTGCTGTTCCCAGATACACAAGGAATAATTTCTGATCC
AGGATCGTCCTTCCAAATGGCTGTATTTATAAAGGTTTTTGGAGCTGCACTGAAGCATCTTATTTTATAGTATAT
CAACCTTTTGTTTTTTAAATTGACCTGCCAAGGTAGCTGAAGACCTTTTAGACAGTTCCATCTTTTTTTTTTAAATT
TTTTCTGCCTATTTAAAGACAAATTATGGGACGTTTGTAGAACCTGAGTATTTTCTTTTTTACCAGTTTTTTAGT
TTGAGCTCTTAGGTTTATTGGAGCTAGCAATAATTGGTTCTGGCAAGTTTGGCCAGACTGACTTCAAAAAATTAA
TGTGTATCCAGGGACATTTTAAAAACCTGTACACAGTGTATTATTGTGGTTAGGAAGCAATTTCCCAATGTACCTA
TAAGAAATGTGCATCAAGCCAGCCTGACCAACATGGTGAAACCCCATCTGTACTAAACATAAAAAAATTAGCCTG
GCATGGTGGTGTACGCCCTGTAATCCCAGTGAAGTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGG
AGGTTGCAGTGAGCTAAGATCGCGCCACTGTACTCCAGCCTGGGCAACAGCGAGACTCCATCTCAAAAAAAGG
AAATGTGTATCAAGAACATGATTATCCAGGGGTATTTTCTAATTCAGATCATCAAACTGATTATATAGAAGAGTT
GGCTTTAAATGTTTGCAAATGTCTTTTTTTTTTAACTGGAAGAAAAAATATTCTGTTGTGTCTCATACAGT
GCTTAGGATGTCTTTCACAGAGCTTATTAAGATGAAACCTG

6690/6881
FIGURE 6178

MAPRTWCPAGIFGLFCPLTLACSSLTIALTDCQPIILVSPTLSLWMVVRVWIMQASLLGEPEEVALGPMGVVAA
TLEVVGTRAMGVAGIMTVDLEGMDMDMDVPETIMAETRVVMTATQEEITETIMTTEMRAHNIGETWISALSEPV
CHTLS

6691/6881
FIGURE 6179

TCTTGCCTGGAGCCTGAGAAAGGGAGGAGAGACAGAAGGAACCGGCGACAGTGGTCTCAGGGCCGCTCCGGGGGG
CCTCAAGAACCGGAGGCAGCCCCGGAGGTGGTCCCCGATCCCGGGCTATGCTCTTGGATCTGAGAAGGGAAGGCG
GAGGGCGGCGGGGACAAGATGGGTGGAGAATGTCAAGCAAGGAATGCTAGGCGGGGGAGGGGCGTTGCTATGGCG
ACTGGGGAGGGGCGGTGTCTGTTCTGAATCGCTGTGTGTACCCGGGCGCTGCCAGGAAGGGCAGGGCTGGGGT
GATGACCATGGTAACACCCGGGTGGGAGTTTCGTGACATCTCCGGCGCGGAGGGACTCGATGTCTATGGCAATGGT
CGCCTGGTGGAAAGGGACGGAACCTAGATCCCTTCGCTCGGGACGCTCACATTCAGGCCCTTGTCTGCAGGCTGC
CGCGGGCGGACACGCCAGAGGAGGAGGCCGGGGAATGGCGCGGTGTGGCAGCAAGTCTTAGCAGTGGACGCGAG
GTACAACCGGTACCGCACACCAACGTTTTCCACAGTTTCGGACGCAGTATATCCGCCGGCGCAGCCAGCTGCTGCG
GGAGAATGCCAAGGCTGGGCACCCCCAGCGCTGCGTCGGCAGTACCTGAGGCTTCGGGGGCAGCTGCTGGGCCA
GCGCTACGGGCCCCCTCTCCGAGCCAGGCAGTGCTCGTGCTATAGCAACAGCATCGTCCGCAGTAGCCGCACTAC
TCTTGACCGCATGGAGGACTTTGAGGATGATCCTCGGGCCCTGGGGGCCCTGGGCACCGTCTGTTCTGTGAGCAG
AGGCTCCTACCAGCTGCAGGCGCAGATGAACCGTGCCGTCTATGAGGACAGGCCCCCTGGCAGCGTGGTGCCAC
GTCAGCAGCAGAGGCAAGTCGGGCCATGGCCGGGGACACGTCACTGAGCGAGAAGTATGCCTTTGCGGGCATGTA
TCATGTTTTTGACCAGCACGTGGATGAGGCAGTCCCAAGGGTGCGCTTCGCCAATGATGACCGACACCGCTGGC
CTGCTGCTCACTCGACGGCAGCATCTCCCTGTGCCAGCTGGTGCTGCCCCACCCACAGTGCTTCGCGTGCTACG
GGGCCACACCCGTGGTGTCTCCGACTTCGCCTGGTCCCTCTCCAATGACATCCTCGTGTCCACCTCACTGGATGC
CACCATGCGCATCTGGGCCTCTGAGGATGGTGCCTGTCATCCGAGAGATCCCTGACCCCGATAGCGCTGAACTGCT
CTGCTGCACCTTCCAGCCTGTCAACAACAACCTCACTGTGGTGGGGAACGCCAAGCACAACGTGCATGTATGAA
CATCTCCACAGGCAAGAAAGTGAAGGGGGGCTCCAGCAAGCTGACAGGCCGTGTCTTGCTCTGTCTTTGATGC
CCCTGGCCGGCTGCTCTGGGCGGGTGATGACCGTGGCAGTGTCTTCTCTTTCTCTTTGATATGGCCACAGGGAA
GCTGACCAAAGCCAAGCGTTTGGTGGTGCATGAGGGGAGCCCTGTGACCAGCATCTCAGCCCGGTCTGGGTCAG
CCGCGAGGCCCGGGATCCCTCACTGCTCATCAATGCTTGCCTCAACAAGTTGCTGCTCTACAGGGTGGTAGACAA
CGAGGGGACCTGCAGCTGAAGAGAAGCTTCCCCATCGAGCAGAGCTCACATCCTGTGCGCAGCATCTTCTGTCC
CCTCATGTCTTCCGCCAGGGGGCCTGCGTGGTGACGGGCAGTGAGGACATGTGCGTGCACTTCTTTGATGTGGA
GCGGGCGGCCAAGGCTGCTGTCAACAAGCTGCAGGGCCACAGTGACCTGTGCTTGATGTGAGCTTCAACTGCGA
CGAGAGCCTACTGGCCTCCAGTGACGCCAGCGCATGGTCATCGTCTGGAGGCGGGAGCAGAAGTAGGGTCTGT
CGGCCCTGTGCTGTCTCCATCCCACCCCTCTTACTCCAGCCTCGTGTGTAAATAAAGTTTCGGTGGTCATGC
TGAGGGCCGGCTCCCAGCTCTGCCGGGGACGGACAGGGCAGAGGGCAGCGGGCAGCTCCAGGAACACGGTGAAAA
AAAAAAA

6692/6881
FIGURE 6180

MAAVWQQVLAVDARYNAYRTPTFPQFRTQYIRRRSQLLRENAKAGHPPALRRQYLRLRGQLLGQRYGPLSEPGSA
RAYSNSIVRSSRTTLDRMEDFEDDPRALGARGHRRSVSRGSYQLQAQMNRAVYEDRPPGSVVPTSAAEASRAMAG
DTSLSENYAFAGMYHVFDQHVDEAVPRVRFANDDRHRLACCSLDGSISLCQLVPAPPTVLRVLRGHTRGVSDFAW
SLSNDILVSTSLDATMRIWASEDGRCIREIPDPDSAELLCTFQPVNNNLTVVGNAKHNVHVMNISTGKKVKGGS
SKLTGRVLALSFDAPGRLLWAGDDRGSVFSFLFDMATGKLTKAKRLVVHEGSPVTSISARSWVSREARDPSLLIN
ACLNKLLLYRVVDNEGTLQLKRSFPIEQSSHPVRSIFCPLMSFRQGACVVTGSEDMCVHFFDVERAAKAAVNKLQ
GHSAPVLDVSFNCDESLASSDASGMVIVWRREQK

6693/6881
FIGURE 6181

GGGAGAGGAACAGGGCCCTGGAGCACCTGGTTTCGGGGACAGTAGGGTTGGTGGGAGTTGCGATGATATTGCCAC
CTACCTCTTACATCTTTTAGTGCGTATGTTCTGTGCCACCCAGCTACTGGTTTCATTTGAGTAGATCGGAGTCAGAT
GAGTACATGTTTACGGGAGGCGCTTGGTTACGGGATCCAGATAGGAATCTTTATCTGAGCTGCTTGTCAGTTTGT
TCGTCTGTCCCTAGGTCTGTCTGCTATCAGCTATGCGCTGCCCGTTGCGCTGCAGACCCGCTTGGCCAAGAGAG
GCATCCTCAAACATCTGGAGCCTGAACCAGAGGAAGAGATCATTGCCGAGGACTATGACGATGATCCTGTGGACT
ACGAGGCCACCAGGTTGGAGGGCCTACCACCAAGCTGGTACAAGGTGTTTCGACCCTTCCTGCGGGCTCCCTTACT
ACTGGAATGCAGACACAGACCTTGTATCCTGGCTCTCCCCACATGACCCCAACTCCGTGGTTACCAAATCGGCCA
AGAAGCTCAGAAGCAGTAATGCAGATGCTGAAGAAAAGTTGGACCGGAGCCATGACAAGTCGGACAGGGGCCATG
ACAAGTCGGACCGCAGCCATGAGAACTAGACAGGGGCCACGACAAGTCAGACCGGGGCCACGACAAGTCTGACA
GGGATCGAGAGCGTGGCTATGACAAGGTAGACAGAGAGAGAGAGCGAGACAGGGAACGGGATCGGGACCGCGGGT
ATGACAAGGCAGACCGGGAAGAGGGCAAAGAACGGCGCCACCATCGCCGGGAGGAGCTGGCTCCCTATCCCAAGA
GCAAGAAGGCAGTAAGCCGAAAGGATGAAGAGTTAGACCCCATGGACCCTAGCTCATACTCAGACGCCCCCGGG
GCACGTGGTCAACAGGACTCCCCAAGCGGAATGAGGCCAAGACTGGCGCTGACACCACAGCAGCTGGGCCCCCTCT
TCCAGCAGCGGCCGTATCCATCCCCAGGGGCTGTGCTCCGGGCCAATGCAGAGGCCTCCCGAACCAAGCAGCAGG
ATTGAAGCTTCGGCCTCCCTGGCCCTGGGTAAAATAAAAGCTTTCTGGTGATCCTGCCCACC

6694/6881
FIGURE 6182

MPLPVALQTRLAKRGILKHLEPEPEEEIIAEDYDDDPVDYEATRLEGLPPSWYKVFDPSGLPYYWNADTDLVSW
LSPHDPNSVVTKSAKKLRSSNADAEKLD RSHDKSDRGHDKSDRSHEKLD RGHDKSDRGHDKSDRDRERGYDKVD
RERERDRERDRDRGYDKADREEGKERRHHRREELAPYPKSKKAVSRKDEELDPM DPSSYSDAPRGTWSTGLPKRN
EAKTGADTTAAGPLFQQRYPYSPGAVLRANAEASRTKQQD

6695/6881
FIGURE 6183

TTGATGTTTTCCAGTCATTCCGGCTGACAGCGTTCAAGTTGGAATCCTGGAGGGGAGGTGTTTTTCTGTCTGTAC
GTGGGACAGGCCACGCTGTCCGTCCGCAGTACCGACGCCTGCAGGTGAGAGCTTCGGGGAGAAAAGTGAAGAGCA
AGACGGAAGTACGGGGAGAAAGGCTGGGAACCAGGGTGTGCGACTTTGACTGAAATTTGAGACGGAGGGCACCGG
AGGGCGAGCACTCGCCTGTGATTGGCCCGTGGGCGTCTGCGAGGTCCACGCAGCTGCTCAATTGGTTGGTGTG
CAATTGTTGTGGCGGCGGCGGCGGCGATTGTTGCCACGTACTTCCGAGTAAGGGGCGGGGCTGTGCCCTGGCGCG
CGTGCGCAGCGCCCCGGGGCCCCACCCGGTAGTGCAAGAACCTGCGAGGGGGCGGAGCGAAGAGGTGCTTGT
GGTCTGTTTTCTTTGAAGCAGAAGGCCGGAACAAGCGTAGCAATAAACTTGCTGGACTTGAGAGAAGGCTAAG
ACAAACTCGCCGCACTGCCTTCATCTTGACTTTTACATCCGGGTTCTCCTCTCGGCGTGACCCGCGCGCCGCCAC
CGCCGCGCGCCGCCGCCGCCGCCCTCCGCCGCCGAGGGTTCTCGAACCGGTGCCGCGATCCCTTTATCCGGGTC
TCGCCGTTCCCGTCTGTGCTCGCGCACTACACTAGCCCCCTCATCCGGGTTCTCTCCCGGCGTGCCCCGCGCCGG
GTTTGTGGGGGGTACTCGGCAGTGCAGCCATGACTATACTCCCCAAAAGAAGCCGCCGCTCCCGACGCCGAC
CCCCCAACGAGCCGCCGCCGCCGGGCGGATGCCCCGGCGCGCGCGCGCGGCGGAGGTGTGGGCGTGGGCGGC
GGCGGCACGGGCGTGGGCGGCGGCGATCGCGACCGTGAATCCGGCGTCTGGGGGCGCGTCCGCGAGCTTCGCCA
CCGCTCAAGGCCCCGCTACAGGACCGCCGGGCGCTCTTCATCGCTGGGCGCTGGCCGTGCCGCTGGTGCAGTG
GCGGGTCCCCGGCCACAACAGGCTTCTCCACCTCCTTGCGGGGGCCAGGTGGTCCCGGCGGCGGTCCCGGCGAC
GCGCTGGGCGCAGCGGCGGCGGTGTGGGTGCCGCGGCGTGGTGGTGGTGTGGGTGGTGGCGTGGGCGTGGGCG
GGCTGCTGCTCCGGGCGTGGGCACAGCAAGCGGCGAGCTCAAGCTCCCGGGGTTGGCGCGGTGGCGGGGGCAGT
CCCGAGCGTGAGGAGGTCCGCGCAGGCTACAACAGTGAGGACGAGTATGAGGCGGTGCAGCACGCATCGAGGCT
ATGGACCCTGCCACTGTGAGCAGCAGGAGCATTGGTTTGAAGAGGCCCTACGAGACAAGAAGGGCTTCATCATC
AAGCAGATGAAGGAGGATGGCGCTGTCTCTCCGGGCTGTAGCTGACCAGGTGTATGGAGACCAGGACATGCAT
GAGGTTGTGCGAAAGCATTGCATGGACTATCTGATGAAGAATGCCGACTACTTCTCCAATATGTCACAGAGGAC
TTTACCACCTACATTAACAGGAAGCGGAAAAACAATTGCCATGGCAACCACATTGAGATGCAGGCCATGGCAGAG
ATGTACAACCGTCTGTGGAGGTGTACCAGTACAGCACAGAACCATCAACACATTCCATGGGATACATCAAAAC
GAGGACGAACCCATTCTGTGTTAGCTACCATCGGAATATCCACTATAATTGAGTGGTGAATCCTAACAAGGCCACC
ATTGGTGTGGGCTGGGCGTCCCATCATTCAAACCAGGGTTTGAGAGCAGTCTCTGATGAAGAATGCCATAAAA
ACATCGGAGGAGTCATGGATTGAACAGCAGATGCTAGAAGACAAGAAACGGGCCACAGACTGGGAGGCCACAAAT
GAAGCCATCGAGGAGCAGGTGGCTCGGGAATCCTACCTGCAGTGGTTGCGGGATCAGGAGAAACAGGCTCGCCAG
GTCCGAGGCCCCAGCCAGCCCCGAAAGCCAGCGCCACATGCAGTTCGGCCACAGCAGCAGCCTCCAGTGGCCTG
GAGGAGTGGACTAGCCGGTCCCCGCGGCAGCGGAGTTCAGCCTCGTACCTGAGCACCTGAGCTGCATGCTGAA
TTGGGCATGAAGCCCCCTTCCCCAGGCACTGTTTTAGCTCTTGCCAAACCTCCTTCGCCCTGTGCGCCAGGTACA
AGCAGTCAGTTCTCGGCAGGGGCGGACCGGGCAACTTCCCCCTTGTGTCCCTCTACCTGCTTTGGAGTGCCGG
GCCCTCATTACAGCAGATGTCCCCCTCTGCCTTTGCTGTAATGACTGGGAAGATAGACAAGAGGCACACAGAGAC
AGACCAACTGGCAGCCAGGAGCCCCAGAGGAGAGACATTGAGACAGAGGAAAGTCTCCCTGCCCCCTATTCC
TTCCAAGATGAGAAAACTTGCCGCCACCCCCGACACTGATGCCAGGGAGGTGGGAGGAAGAAGTGGGAAATTT
CCCTTCCAGTACCCCCAAGAAGTCTGAGCCTCAATGTTGAATTTTTTCTTTATTAAATTAATTTTATCTTA
TAAATC

6696/6881
FIGURE 6184

MTILPKKKPPPPDADPGGTGVGGGDRDRDSGVVGARPRASPPPGPLPGPPGALHRWALAVPPGAVAGPRPQQAS
PPPCGGPGGGPGGPGDALGAAAAGVGAAGVVVGAVGVGGCCSGPGHKKRRRQAPGVGAVGGGSPEREVAGAG
YNSEDEYEAAAARIEAMDPATVEQQEHWFEKALRDKKGFIIKQMKEDGACLFRAVADQVYGDQDMHEVVRKHCMD
YLMKNADYFSNYVTEDFTTYINRKRKNNCHGNHIEMQAMAEMYNRPVEVYQYSTEPINTFHGIIHQNEDEPIRVSY
HRNIHNSVVPNKATIGVGLGLPSFKPGFAEQSLMKNAIKTSEESWIEQQMLEDKKRATDWEATNEAIEEQVAR
ESYLQWLRDQEKQARQVRGPSQPRKASATCSSATAAASSGLEEWTSRSPRQRSSASSPEHPELHAELGMKPPSPG
TVLALAKPPSPCAPGTSSQFSAGADRATSPILVSLYPALECRALIQQMSPSAFGLNDWEDRQEAHRDRPTGSQAAP
EERDIQTEESLPAPHSFQDEKNLPPPPDTDAREVGGRSGKFPFPVPPRTSEPSMLNFFFIKITFIL

6697/6881
FIGURE 6185

CTGGGTGTACAGCGTCCTCGAAACCACGAGCAAGTGAGCAGATCCTCCGAGGCACCAGGGACTCCAGCCCATGCC
ATGGCGGATTTCTGAGCGCCTCTCGGCTCCTGGCTGCTGGGCCGCTGCACCAACTTCTCGCGCACTCGAAAGGGA
ATCCTCCTGTTTGCTGAGATTATATTATGCCTGGTGATCCTGATCTGCTTCAGTGCCTCCACACCAGGCTACTCC
TCCCTGTCGGTGATTGAGATGATCCTTGCTGCTATTTTCTTTGTTGCTTACATGTGTGACCTGCACACCAAGATA
CCATTCATCAACTGGCCCTGGAGTGATTTCTTCCGAACCTCATAGCGGCAATCCTCTACCTGATCACCTCCATT
GTTGTCCTTGTTGAGAGAGGAAACCACTCCAAAATCGTTCGCAGGGGTACTGGGCCTAATCGCTACGTGCCTCTTT
GGCTATGACGCCTATGTCACCTTCCCCGTTTCGGCAGCCAAGACATACAGCAGCCCCCACTGACCCCGCAGATGGC
CCGGTGTAGGCGAACTTCCCTCATTCTCTCTGCAATCTGCAAATAACTCCTCCATTGAAATAACTCCTCCCCAC
CCCAACAACAACATTCCCAGCAGACCAACTCCCACCCCTCTTTGAGGTAAAAGTGCCTTTATTGGGAGACTTTT
GTCTTCCAGCCTGCCAATCAACCCTCCTGGGTGTGGCCACCATATGTGTGTGCCTAGGTCCTCCTTCTGCACGAT
CCAATAGGAGACACCAGTTCTGACTGAACCATGCCCCACCTAAGTCACAAAATGAGGGAAGTGGGGAGTTAGAT
TTCAGAGTCCAGGCCCTAGGTTGGGACCCACTCCAAATAATCTCCTCGGTGTGGGTGGTGGTTCTATAGAGGGAT
AAATGAATAATAAACATTGTTAAAATATAAAAAAAAAAAAAAAAAA

6698/6881
FIGURE 6186

MADSERLSAPGCWAACTNFSRTRKGILLFAEIILCLVILICFSASTPGYSSLSVIEMILAAIFFVVYMCDLHTKI
PFINWPWSDFFRLLIAAILYLITSIVVLVERGNHISKIVAGVLGLIATCLFGYDAYVTFFVRQPRHTAAPTDPADG
PV

6699/6881
FIGURE 6187

GAGCACGGAGCAGGGTTTCTACAGCTGCTCCCCACTTTCTCGGACCCGGTCCTGGACCCAGCCCCGACTCCGAC
ACGGCTCCACCATGGAGGAGGCGGACCGAATCCTCATCCATTGCTGCGCCAGGCCGGCACGGCAGTTCCCTCCAG
ATGTGCAGACCTTGC GCGCCTTCACCACTGAGCTGGTTGTAGAGGCTGTGGTCCGCTGCCTGCGTGTGATCAACC
CTGCGGTGGGCTCTGGCCTCAGCCCTCTGCTGCCTCTTGCCATGTCTGCCCGGTTCCGCCTGGCCATGAGCCTGG
CTCAGGCCTGCATGGACCTGGGCTATCCCTTGAGCTTGCGCTATCAGAATTCTCTACCCAGTGAGCCTGACC
TCCGAGACCTGCTTCTCTTCTTGCTGAGCGTCTGCCCCACCGATGCCCTCTGAGGATGCAGACCAGCCTGCAGGTG
ACTCAGCTATTCTCCTCCGGGCCATTGGGAGCCAAATTGCGGACAGCTGGCACTGCCTTGGGTCCCGCCCCACC
TTCGCACTCCCAAGCTGCAGCACCTCCAGGGCTCGGCCCTCCAGAAGCCTTTCCATGCCAGCAGGCTGGTTCGTGC
CAGAAATTGAGTTCCAGAGGTGAGCCACGGGAGTTCCAGGCGAGTCCCCTGCTGCTTCCAGTCCCTACCCAGGTGC
CTCAGCCTGTTGGAAGGGTGGCCTCGCTCCTCGAACACCATGCCCTGCAGCTCTGCCAGCAGACGGGCCGGGACC
GGCCAGGGGATGAGGACTGGGTCCACCGACATCCCGCCTCCACCCCAGGAGACACACGGGCTCAGCGGCAGC
GGCTGCAAAAGCAACTGACTGAGCATCTGCGCCAAAGCTGGGGCCTGCTTGGGGCCCCATACAAGCCCCGGGACC
TGGGAGAAGTCTGTCAGGCCTGGGGTCTGTTGGGGCCAAGACTGGTGCTCCTAAGGGTCCCGCTTACGCACTCAG
AGAAGTTCACTTCCATCTGGAGCCCCAGGCCAGGCCACTCAGGTGTCAGATGTGCCAGCCACCTCCCGCGGGC
CTGAACAGGTCACGTGGGCAGCTCAGGAACAGGAGCTCGAGTCCCTTCGGGAGCAGCTGGAAGGAGTGAACCGCA
GCATTGAGGAGGTTGAGGCCGACATGAAGACCCTGGGCGTCAGCTTTGTGCAGGCAGAGTCTGAGTGCCGGCACA
GCAAGCTCAGTACAGCAGAGCGTGAGCAGGCCCTGCGCCTGAAGAGCCGCGCGGTGGAGCTGCTGCCCGATGGGA
CTGCCAACCTTGCCAAGCTGCAGCTTGTGGTGGAGAATAGTGCCAGCGGGTCATCCACTTGGCGGGTCAGTGGG
AGAAGCACCGGGTCCCACTCCTCGCTGAGTACCGCCACCTCCGAAAGCTGCAGGATTGCAGAGAGCTGGAATCTT
CTCGACGGCTGGCAGAGATCCAAGAACTGCACCAGAGTGTCCGGGCGGCTGCTGAAGAGGCCCGCAGGAAGGAGG
AGGTCTATAAGCAGCTGATGTCAGAGCTGGAGACTCTGCCAGAGATGTGTCCCGGCTGGCCTACACCCAGCGCA
TCCTGGAGATCGTGGGCAACATCCGGAAGCAGAAGGAAGAGATCACCAAGATCTTGTCTGATACGAAGGAGCTTC
AGAAGGAAATCAACTCCCTATCTGGGAAGCTGGACCGGACGTTTGGCGTGACTGATGAGCTTGTGTTCAAGGATG
CCAAGAAGGACGATGCTGTTCCGGAAGGCCTATAAGTATCTAGCTGCTCTGCACGAGAAGTGCAGCCAGCTCATCC
AGACCATCGAGGACACAGGCACCATCATGCGGGAGGTTGAGACCTCGAGGAGCAGATCGAGACAGAGCTGGGCA
AGAAGACCCCTCAGCAACCTGGAGAAGATCCGGGAGGACTACCGAGCCCTCCGCCAGGAGAACGCTGGCCTCCTAG
GCCGGGTCCGGGAGGCTTGAGAGGAGCCGCGGCAGAGGTCTCTCCCCAGCCTCAGGCAGGGATTGGGGTGTGGA
GGCAGTGGCCAAGCACATGCCCTAGCTACTTCTCCGCTGTCCAGTTCTCTCCTGCTGCGGCCTTGACCCAGACC
CCTGCCCCACTGACCGCAACCCTTATATGGGGTGATAGTCCAGCATGTGGGGAGCTCGGCTGCAGTTTATTGGGGA
CGGTACTGTGGGTTGGGGGCTTGATCCCAAATAAATGAGTAGTTCTCTGC

6700/6881
FIGURE 6188

MEEADRILIHSLRQAGTAVPPDVQTLRAFTTEL VVEAVVRCLRVINPAVGSGLSPLLPLAMSARFRLAMSLAQAC
MDLGYPLELGYQNFLYPSEPDLRDLLLLFLAERLPTDASEDADQPAGDSAILLRAIGSQIRDQLALPWVPPHLRTP
KLQHLQGSALQKPFHASRLVVPSELSSRGEPRFQASPLLLPVPTQVPQPVGRVASLLEHHALQLCQQTGRDRPGD
EDWVHRTSRLPPQEDTRAQRORLQKQLTEHLRQSWGLLGAPIQARDLGELLQAWGAGAKTGAPKGSRFTHSEKFT
FHLEPQAQATQVSDVPATSRPEQVTWAAQEQELESLEQLEGVNRSIEEVEADMKTLGVSVFVQAESECRHSLKLS
TAEREQALRLKSRVALLPDGTANLAKLQLVVENSAQRVIHLAQWEKHRVPLLAEYRHLRKLQDCRELESSRRL
AEIQELHQSVRAAAEEARRKEEVYKQLMSELETLPDVSRLAYTQRILEIVGNIRKQKEEITKILSDTKELQKEI
NSLSGKLDRTFAVTDELVFKDAKKDDAVRKAYKYLAALHENCSQLIQTIEDTGTIMREVRDLEEQIETELGKKTL
SNLEKIREDYRALRQENAGLLGRVREA

6701/6881
FIGURE 6189A

GGGCTGCTGTGCTGGCAGCAGTAGGCGAGGGCGCGGCTGCGGGGTTCCCTGGTGCTGAGGACGGACGCCATTGGAG
TTCCCAGAGAAGATCCCGCCTCCCATTTGAATCCCGCCCCCTCCCCCTGCAGCTGCTTCACCCTCCCTCTCAGGCTG
AGCTCTCATCTCCCTGGGAGCCCGCAGCATGGCTGAGGGAAGCTTCAGCGTGCAATCGGAAAGCTACAGTGTTGA
AGACATGGATGAGGGTAGCGACGAAGTCGGGGAGGAAGAGATGGTTGAAGGCAACGACTATGAAGAATTCGGTGC
GTTTGGTGGCTATGGCACCCCTACCAGCTTTGACATCCATATCCTCAGAGCCTTCGGAAGCTTGGGTCCAGGCCT
TCGCATCTTATCGAATGAGCCCTGGGAACCTGGAACCCCTGTGCTGGCCCAGACCCCTGGTGGAGGCATTGCAGCT
GGATCCGGAACACTTGCCAATGAGACGGCCGCGCTGTGCTGCCAACGTAGCCCGCGCCGCGCCTCCAACCGTGC
GGCTCGGGCCGTGTCCGCCGTGCCCGTACCGCCTTCAGTCAGGTGGTTCGCTAGCCACCGGGTGCCACGCCCGCAG
GTCTCAGGAGAGGATACCCAGCCCACGACCTACGCCGCGGAGGTGAGGGGCCACCCCTGAGCACCCCTTGCTTC
TCCGACAGCTCCAGATGTTAGTCACCAGTAAGATGGCTGCCCCGAGGCTCCGGCAACCTCCGCACAGTCCCA
GACAGGCTCCCCGGCCAGGAGGCTGCTACTGAGGGCCCTAGTAGCGCCTGTGCTTTCTCTCAGGCTCCGTGTGC
CAGGGAGGTGGACGCCAACCGGCCAGCACAGCCTTCTGGGCCAGAATGATGTCTTCGATTTCACTCAGCCGGC
AGGTGTCACTGGCATGGCCTTCCCGCGCCCCAAGAGACCTGCCCCAGCCCAAGAGGCTGCCACAGAGGGCCCCAG
TGCTGCCTCTGGTGTGCCCCAGACGGGACCTGGCAGGGAGGTGGCAGCCACCCGGCCCAAGACCACCAAGTCGGG
GAAGGCGCTGGCCAAGACTCGGTGGGTGGAGCCTCAGAATGTTGTGGCAGCAGCTGCTGCCAAGGCCAAGATGGC
CACGAGCATCCCTGAGCCGGAGGGTGCAGCTGCTGCCACTGCTCAGCACAGTGCTGAGCCCTGGGCCAGGATGGG
AGGCAAGAGGACCAAGAAGGTGAGAGGGGATCCXX
XX
CCCTTTGCTTGCGTGCCACGGCTGGTCCCTCCATAGCCACAGGACGGGGTCCCTGGCTGCGTCACCCCTCGGCAGAG
CTTGACCAAGGGGCTACAGCTCTATGACCCCTGCTCAGCCAGGTGCTTCTCCAACCTCTCCCTCTCTGCAGA
CATGCTGAAGGATGTCATCAGAGAATATGATGAACATTTCCCTGAGATCATTGAACGAGCAACGTACACCCTGGA
AAAGGTGGGTGCAGGATGGGAGCAGCTCTGTGGGGGAAGAGCGGGCATGGGGGTGCGGTGACCTGCAGCCCTC
AAGGCCCAGTCTCTGGAGCCATCTCTACCTCTCCGACTCTGAGCTTCCACTGCACTGGCAGTTTGACTCGTGCT
TCCTGCCCTCGGCTTCTCTCTCTCATGCTCTCTGAGTGTCTCGCCGTCTGGCCAGGTGGGTCTCATCGCCTCTGC
CAGCGTCAGCTCCACAGCGAAGGTCTTCCGTGTGCTGTCTTCTCTGCCCTCGCTCACGAGTTTGGATTCTCTG
CTGAGGAGCAGTTCTAACCCGGAATCACTGTCTGCCGGCAGGATGCCAGCATGGGGTTTGGATCTCACACTCTGT
TTTCTCCCCACGTAGAAAGTTTGGGATCCACCTGAAGGAGATCGACAAGGAAGAACACCTGTATATTCTTGTCTG
CACACGGGACTCCTCAGCTCGCCTCCTTGAAAGTAAGAAGGACACTCCCGAGGCTGATCTCTCTTGGTGATCTC
GGCGTCATCTTCATGAATGGCAACCGTGCCAGCGAGGCTGTCTCTGGGAGGCACTACGCAAGATGGGACTGCGC
CCTGGGTATGATTGGCCTCTCCAGCTCCTCCCTCGGTGCTATCCTCTGGCCAAAGAGGTCTGGGATTGCAATA
GCCTGGTGGTCTGGCGCAAGGGCGTGGGGTGCTGGGCTCGGTAGAGAGCAAAGGATCTCACCAGGGCGGATGGG
GAAGCGGTGCTGGACGTGCTCAGCCCTCTCTGCTCTGTGGCCCCAGATGACATCTAAGAGAGACAGTCAGAG
TCAGGGATTCCATCAAATCCCTACCTGGGGCGTCCCTGACCAACAGTCCTCTGGCCTCTGCTGCATGCCAGGCC
TCCACAGCGACTCCCGGGGGCTGGGAAGTCATAGTCATGCTAGGGAGGGCCCCTGCCACCGTCTCTGCTCATGG
ATTCTTTCTTGCCCTCAGGTGAGGCACCCATTCTCGGCGATCTGAGGAAGCTCATCACAGATGACTTTGTG
AAGCAGAAAGTAAGTATCACCTGAGCTAACTGCGGCTCTCACTCGAGCATCCTTTGTGTGCTGGTCTGGCTGAGAA
AGCAGTTCCTATCCCAAATCTTCAACTGGAGGGATGGGTGCCTCTGACCTGGGAGTGAGTGGCAGTGGGGGGTA
TGCGAGTGTGTGGGGACCGAAGGCCAGGGCGGTCTTGGGAAAAGGGAGCTCACGTACCTGAGAACACGGTGTGG
GGTGTGAAAACGGCCGCCATCACCTTGAGCACCTGCCCTGTAGACTGACACAAGAGTTCCCCCTGGTTTACACCT
AAGGAACCCGGAGCTCAGAGAGGAGACGCCTCTGAGCATGGCTCCCAGCTGGTAAGGGCCTCAGCCCAACTCTCC
TGATTTTCAGGCCAGGGGCCACCCCTCTCCCGTCCCTGGAGGACTTGCCAACGCACAGGCGCGCATGCACACCAA
CAAAGGGTCAGGACTTGAGGAGGATGCCTGGAGCACGCTTCTCCTGGCTGACTGTTTCTCTCTCCAGTCGTTT
CCTCTGGTGGGCTCTCCAGGGCTCCGCCGGGGTGTGGCCAAGACCCTCGAGGTGGGGTGTGCTCAGAGCAGGGG
GCCTGAAGAATGGCTCCTCTGTTTACAACACACCCAACAGGAAGCTGGGGTCATCGTGATGAGGGGCACAACTT
GTGGCCTCCCTACAGACAAATGCCCTACATGTGGACCCCTGCACCTCCGATGGCTTCCGGGGAGGACCAATGG
CAAAAGGCTTTGAAGGCCTCACTTTTGCAGGCAGAAGTCCTGGGAGTGGGTTTGGGAATGAGTGAAGGGCTGGAG
GGGCAGGACAGTCCTCTTCCAGGAGCTGAGCTGCGGCATCGGGTTGAGGAGGGGGCCCCCTGGAACCCATCCGTTT
AGCAACAGGTCTGCTTGGCTAGCAGCAAAGTTTACTTTCTCTCATGCCAAGGTACCTGGAATACAAGAAGATCC

6702/6881
FIGURE 6189B

CCAACAGCAACCCACCTGAGTATGAATTCCTCTGGGCCTCGAGCCCGCCATGAGACCAGCAAGATGAGGGTCCTG
AGATTCATCGCCAGAATCAGAACCGAGACCCCGGGAATGGAAGGCTCATTCTTGGAGGCTGTGGATGATGCT
TTCAAGACAATGGATGTGGATATGGCCGAGGAACATGCCAGGGCCCAGATGAGGGCCCAGATGAATATCGGGGAT
GAAGCGCTGATTGGACGGTGGAGCTGGGATGACATACAAGTCGAGCTCCTGACCTGGGATGAGGACGGAGATTTT
GGCGATGCCTGGGCCAGGATCCCTTTTGCTTTCTGGGCCAGATACCATCAGTACATTCTGAATAGCAACCGTGCC
AACAGGAGGGCCACGTGGAGAGCTGGCGTCAGCAGTGGCACCAATGGAGGGGCCAGCACCAGCGTCCTAGATGGC
CCCAGCACCAGCTCCACCATCCGGACCAGAAATGCTGCCAGAGCTGGCGCCAGCTTCTTCTCCTGGATCCAGCAC
CGTTGACGAACTGCAGCGATCTTACTGGCCAAGCCAGAGCGCCTCCTCTCAGATTCTTCTCGACACAGCACCCCT
AGGCGGCTTCTTCCIGTCAGTCGGAGGTGGCATGCAAGATGAAGCTCTCTTTGCTCTTCCTGCTTTTCATTTTGTG
CTTTTCCTTGTGTTTTTCATGTTTTGGGTATCAGTGTTACATTAAAGTTGCAAAATTAA

6703/6881
FIGURE 6190

CCCATCCCGTGGGTGGCCGGCGACAAGATGGCAGCAGCGTGTGCGAGCGTGAAGGGCCTGGTGGCGGTAATAACC
GGAGGAGCCTCGGGCCTGGGCCTGGCCACGGCGGAGCGACTTGTGGGGCAGGGAGCCTCTGCTGTGCTTCTGGAC
CTGCCCAACTCGGGTGGGGAGGCCCAAGCCAAGAAGTTAGGAAACAAC TGCGTTTTCGCCCCAGCCGACGTGACC
TCTGAGAAGGATGTGCAAACAGCTCTGGCTCTAGCAAAAGGAAAAGTTTGGCCGTGTGGATGTAGCTGTCAACTGT
GCAGGCATCGCGGTGGCTAGCAAGACGTACAACCTTAAAGAAGGGCCAGACCCATACCTTGGAAGACTTCCAGCGA
GTTCTTGATGTGAATCTCATGGGCACCTTCAATGTGATCCGCCTGGTGGCTGGTGAGATGGGCCAGAATGAACCA
GACCAGGGAGGCCAACGTGGGGTCATCATCAACACTGCCAGTGTGGCTGCCTTCGAGGGTCAGGTTGGACAAGCT
GCATACTCTGCTTCCAAGGGGGGAATAGTGGGCATGACACTGCCCATTGCTCGGGATCTGGCTCCCATAGGTATC
CGGGTGATGACCATTGCCCCAGGTCTGTTTGGCACCCCACTGCTGACCAGCCTCCAGAGAAAGTGTGCAACTTC
TTGGCCAGCCAAGTGCCCTTCCCTAGCCGACTGGGTGACCCTGCTGAGTATGCTCACCTCGTACAGGCCATCATC
GAGAACCCATTTCCTCAATGGAGAGGTCATCCGGCTGGATGGGGCCATTCTGATGCAGCCTTGAAGGGAGAAGGCA
GAGAAAACACACGCTCCTCTGCCCTTCCCTTCCCTGGGGTACTACTCTCCAGCTTGGGAGGAAGCCCAGTAGCCA
TTTGTAACTGCCTACCAGTCGCCCTCTGTGCCTAATAAAGTCTCTTTTCTCACAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAA

6704/6881
FIGURE 6191

MAAACRSVKGLVAVITGGASGLGLATAERLVGQGASAVLLDLPNSGGEAQAKKLGNNCVFAPADVTSEKDVQTAL
ALAKGKFGRVDVAVNCAGIAVASKTYNLKKGQHTLEDQFQVLDVNLMTFNVIRLVAGEMQNEPDQGGQRGVI
INTASVAAFEGQVGQAAYSASKGGIVGMTLP IARDLAPIGIRVMTIAPGLFGTPLLTSLPEKVCNFLASQVPFPS
RLGDPAEYAHLVQAIENPFLNGEVIRLDGAIRMQP

6705/6881
FIGURE 6192A

GCCTGTCCTACTGCCGCCGGCGCCGGCCGCTCATGGGGTTCCTGAAACTGATTGAGATTGAGAACTTTAAGTCG
TACAAGGGTCGACAGATTATCGGACCATTTTCAGAGGTTCAACGCCATCATTTGGACCCAATGGCTCTGGTAAGTCA
AATCTCATGGATGCCATCAGCTTTGTGCTAGGTGAAAAAACAGCAACCTGCGGGTAAAGACCCTGCGGGACCTG
ATCCATGGAGCTCCTGTGGGCAAGCCAGCTGCCAACCGGGCCTTTGTCTAGCATGGTCTACTCTGAGGAGGGTGCT
GAGGACCGTACCTTTGCCCGTGTTCATTGTAGGAGGTTCTTCTGAGTACAAGATCAACAACAAAGTGGTCCAAC
CATGAGTACAGTGAGGAATTAGAGAAGTTGGGCATTCTCATCAAAGCTCGTAACCTCCTCGTTTTCCAGGGTGCT
GTGGAATCTATTGCCATGAAGAACCCAAAGAGAGGACAGCTCTATTGAAGAGATTAGTCGTTCTGGGGAGCTG
GCGCAGGAGTATGACAAGCGAAAGAAGGAAATGGTGAAGGCTGAAGAGGACACACAGTTTAATTACCATCGCAAG
AAAAATATTGCGGCTGAACGCAAGGAAGCAAAGCAGGAGAAAGAAGAGGCTGACCGGTACCAGCGCCTGAAGGAT
GAGGTAGTACGGGCTCAGGTACAGCTGCAGCTCTTTAAGCTTTACCATAATGAAGTGGAAATTGAGAAGCTCAAC
AAGGAACCTGGCCTCAAAGAACAAGGAGATCGAGAAGGACAAGAAGCGTATGGACAAGGTGGAGGATGAAGTGAAG
GAGAAGAAGAGGAGCTGGGCAAAATGATGCGGGAGCAGCAGCAGATTGAGAAGGAGATCAAGGAGAAGGACTCA
GAATTGAACCAGAAGCGGCCTCAGTACATCAAAGCCAAGGAGAACACCTCCCACAAAATCAAGAAGCTGGAAGCA
GCCAAGAAGTCTCTGCAGAATGCTCAGAAGCACTACAAGAAGCGTAAAGGTGACATGGATGAGCTGGAGAAGGAG
ATGCTGTCTAGTGGAGAAGGCTCGGCAGGAGTTTGAAGAACGGATGGAAGAAGAGAGTCAGAGTCAGGGCAGAGAT
TTGACGTTGGAGGAGAATCAGGTGAAGAAATACCACCGGTTGAAAGAAGAAGCCAGCAAGAGAGCAGCTACCCTG
GCCCAGGAGCTGGAGAAATTCATCGAGACCAGAAAGCTGACCAGGACCGCTCTGGATCTGGAAGAACGGAAGAAA
GTAGAGACAGAGGCCAAGATCAAGCAAAAGCTGCGGGAAATTGAAGAGAATCAGAAGCGGATTGAGAACTGGAG
GAATACATCACCCTAGCAAGCAGTCCCTAGAAGAGCAGAAGAAGCTAGAGGGGGAGCTGACAGAGGAGGTGGAG
ATGGCCAAGCGGCGTATTGATGAAATCAATAAGGAGCTGAACCAGGTGATGGAGCAGCTAGGGGATGCCCGCATC
GACCGCCAGGAGAGCAGCCGCCAGCAGCGAAAGGCAGAGATAATGGAAGCATCAAGCGCCTTTACCCTGGCTCT
GTGTACGGCCCGCCTCATTGACCTATGCCAGCCACACAAAAGAAGTATCAGATTGCTGTAACCAAGGTTTTGGGC
AAGAACATGGATGCCATTATTGTGGAAGTTCGGAGAAGACAGGCCGGGACTGTATTCAGTATATCAAGGAGCAGCGT
GGGGAGCCTGAGACCTTCTTGCCCTCTTGACTACCTGGAGGTGAAGCCTACAGATGAGAACTCCGGGAGCTGAAG
GGGGCCAAGCTAGTGATTGATGATTGCTATGAGCCACCTCATATCAAAAAGGCCCTGCAGTATGCTTGTGGC
AATGCCCTTGTCTGTGACAACGTGGAAGATGCCCGCCGATTGCCTTTGGAGGCCACCAGCGCCACAAGACAGTG
GCACTGGATGGAACCTATTCCAGAAGTCAGGAGTGATCTCTGGTGGGGCCAGTGACCTGAAGGCCAAGGCACGG
CGCTGGGATGAGAAAGCAGTAGACAAGTTGAAAGAGAAGAGGAGCGCTTGACAGAGGAGCTGAAAGAGCAGATG
AAGGCAAAACGGAAGAGGCAGAGCTGCGTCAGGTGCAGTCTCAGGCCCATGGACTGCAGATGCGGCTCAAGTAC
TCCCAGAGTGACCTAGAACAGACCAAGACACGACATCTAGCCCTGAATCTGCAGGAAAAATCCAAGCTGGAGAGT
GAGCTAGCCAACCTTTGGGCCTCGCATTAATGATATCAAGAGGATCATTAGAGCCGAGAGAGGGAAATGAAAGAC
TTGAAGGAGAAGATGAACCAGGTAGAGGATGAGGTGTTTGAAGAGTTTTGTGCGGGAGATTGGTGTGCGCAACATC
CGGGAGTTTGAGGAAGAAAAGGTGAAACGGCAGAATGAAATCGCCAAGAAGCGTTTTGGAGTTTGAGAAATCAGAAG
ACTCGCTTGGGCATTGAGTTGGATTTTGAAGAAGCAACTGAAGGAGGACCAAGATAAAGTACACATGTGGGAG
CAGACAGTGAAAAAGATGAAAATGAGATAGAAAAGCTCAAAAAGGAGGAACAAAGACACATGAAGATCATAGAT
GAGACCATGGCTCAGCTACAAGACCTGAAGAATCAGCATCTGGCCAAGAAGTCGGAAGTGAATGACAAGAATCAT
GAGATGGAGGAGATTGTAAGAACTCGGGGGCGCCAACAAGGAAATGACCCATTTACAGAAGGAGGTGACAGCC
ATTGAGACCAAGCTTGAACAGAAGCGCAGTGACCGTCACAACTTGCTACAGGCCTGTAAGATGCAGGACATTAAG
TTGCCACTGTCAAAAGGCACCATGGATGATATTAGTCAGGAAGAGGGTAGCTCCAGGGGGAGGACTCAGTGAGT
GGTTCACAGAGAAATTCAGTATCTATGCACGAGAGGCCCTCATTGAGATTGACTACGGTGATCTGTGTGAGGAT
CTGAAGGATGCCCAGGCTGAGGAAGAGATCAAGCAAGAGATGAACACACTGCAGCAGAAGCTGAATGAGCAGCAG
AGTGTGCTTCAGCGTATTGCCGCCCCAACATGAAGGCCATGGAAAAGCTGGAAAGTGTCCGAGACAAGTTCCAG
GAGACCTCAGATGAGTTTGAAGCAGCCCGAAAGCGAGCAAAGAAGGCCAAGCAGGCATTGCAACAGATCAAGAAG
GAGCGCTTTGACCGCTTCAATGCTTGTGTTTGAATCTGTGGCTACCAACATTGATGAGATCTATAAGGCCCTGTCC
CGCAATAGCAGTGCCAGGCATTCTGGGCCCTGAGAACCCTGAAGAGCCCTACTTGGATGGCATCAACTACAAC
TGTGTGGCTCCTGGGAAACGCTTCCGGCCTATGGACAACCTGTGAGCGGGGAGAAGACAGTGGCAGCTCTGGCC
CTGCTCTTTGCCATCCACAGCTACAAGCCAGCCCCCTTCTTCGTCCTGGATGAGATTGATGCTGCCTTGGATAAC
ACCAACATTGGCAAGGTGGCAAAATACATCAAGGAGCAGTCGACTTGCAACTTCCAGGCCATCGTCATCTCTCTC

6706/6881
FIGURE 6192B

AAGGAGGAGTTCTACACCAAGGCCGAGAGCCTCATTGGAGTCTATCCTGAGCAAGGGGACTGTGTGATCAGCAAA
GTCCTGACCTTCGACCTCACCAAGTACCCAGATGCCAACCCCAACCCCAATGAGCAGTAGCAGTATTTTTGCCCT
CCCGCCCTGTCTGGATCCCTAAGCTGTCCCTCTCCCAATCTCTGGATATTTGACTCCCAACCTTCCCCCTACCTC
CTGGCCCTTTTTGGTGTAGTCATGGGATTTAGGCACTGCTAATCAAGCATGAAGAGGAACAGAGGTGATGTTAGG
TCTGGAGCAAAAATTCCTGAACGACAGGGAGTATTCTGGCCTCTGAAAGGAGGTGCTGAGCTGAACAGGGCCATC
TGTTTCATCACACACACCCCTTCCTCCCCCTCATCACCCATAATCGTGGGCCCCCTTGGGCCTCTTGCCCACTGTG
TGTGTGGGTATGTATGTGTGTATGTATGTATCCGCATGTGTGCATGTGAGTATGTTTGCAAAATAATAAAGGATA
TTGGAGACCTGTTTTAGAAGGAGCCTAGGCTGAATTTGATTCCAAGAGAGCTTAGGATGACAGCACCCCTGAGCT
GGGCAAAGGTACTCAGGACCTCATAGGAGTCTTAGGCAGTTACCTGAAACTGCCTTCATTCACTCATTGTGTAT
TCATTCAATTTATGTATTCATCAGACACATACCGAACACCCTCTATTTGTCAGGCTCTGTGCTTGAATACAGAGT
TGAATCAGACATGATCTCTACCCCTCTAGTAAGGAGATACAGTGGGTTCATGAATGACTATAGTTAGCTGAATGT
CATATGTACTTTGAATTTGAGAAGTGGGTGATCCCTCTAGGCTTCCTGGAGGTCACATTTAAGCTAGACCTTGA
CAAATTGGTAGGATTTGGTCAGGCACTAGGAGTGGAGCATGAGCTCTGGGGACAGACAGTTATGGGTTCTGGTCC
CACTTTTTATCACTTACTAGTTGTTTGACCTTGGGCAAGTCATTTGACCTTCTGTGCCTCAGTTTCCTCATCTGT
AAAATGGGGCTAACAATATTACCTACCTCATAGGATTTAATGATGTCAAGCTCCTCACTGGAGGCCTTATCCCTT
CGTGGAGCCCACTAGGTGCCGACCCCTCAGAATATAACCCTCATGCCTGGACCCCTGAGAGCTTCTGATCCAGC
TATTAGGGACAGAAGAAGCCTCCAAATCTGGAAGGTGCTGAATGCCCTGCTGACTGGGAAAGTTTCAGGGCACTG
ATGGGGTCTACCTGGTAAGCGGAGGGCCTGAGGAAACCTGTAGCTTCAATCATGTCTGGTAACCGGGTGCCTGAG
CCCCAATCTGGGTGTGAGGAAATAGGGGAGAGGTATCCTGGGCCACATCCCAGCCTAACACCTGTGAGGTTTAT
TTTAGGAATAACCTCATTAGCTATAAGGATCATGCAGAGGCAGCAAAGCCGGGTGCGATGAGCTCAGCCTTTAC
TCATTACATACACCATCACACTTTAATTCCAATCTGTATATTGCTTTTTAAAGTTAAGTCCATTCTAATTACC
CAAATATGCATGAATTC

6707/6881
FIGURE 6193

MGFLKLEIENFKSYKGRQIIIGPFQRFRTAIIIGPNGSGKSNLMDAISFVLGEKTSNLRVKTLRDLIHGAPVGKPAA
NRAFVSMVYSEEGAEDRTFARVIVGGSSEYKINNKVVLHEYSEELEKLGILIKARNFLVFQGAVESIAMKNPKE
RTALFEEISRSGELAQEYDKRKKEMVKAEDTQFNYHRKKNIAAERKEAKQEKEEADRYQRLKDEVVRAQVQLQL
FKLYHNEVEIEKLNKELASKNKEIEKDKKRMDDKVEDELKEKKELGKMMREQQQIEKEIKEKDSELNOKRPQYIK
AKENTSHKIKKLEAAKKSLOAQKHYYKRRKGDMDELEKEMLSVEKARQEFEEERMEESQSQGRDLTLEENQVKKY
HRLKEEASKRAATLAQELEKFNDRDQKADQDRDLLEERKKVETEAKIKQKLREIEENQKRIEKLEEYITTSKQSLE
EQKKLEGEELTEEVEMAKRRIDEINKELNQVMEQLGDARIDRQESSRQORKAEMESIKRLYPGSVYGRIDLICQP
TQKKYQIAVTKVLGKNMDAIIVDSEKTGRDCIQYIKEQRGEPETFLPLDYLEVKPTDEKLRELKGAKLVIDVIRY
EPPHIKKALQYACGNALVCDNVEDARRIAFGGHQRHKTVALDGTFLFQKSGVISGGASDLKAKARRWDEKAVDKLK
EKKERLTEELKEQMKAKRKEAELRQVQSQAHLQMLKYSQSDLEQTKTRHLALNLQEKSKLESELANFGPRIND
IKRIIQSREREMKDLKEKMNQVEDEVFEEFCREIGVRNIREFEEKVKRQNEIAKKRLEFENQKTRLGIQLDFEK
NQLKEDQDKVHMWEQTVKKDENEIEKLKKEEQRHMKIIDETMAQLQDLKNQHLAKKSEVNDKNHEMEEIRKKLGG
ANKEMTHLQKEVTAIETKLEQKRSDRHNLQACKMQDIKLPLSKGTMDDISQEEGSSQGEDSVSGSQRISSIYAR
EALIEIDYDGLCEDLKDAQAEIEIKQEMNTLQQKLNEQQSVLQRIAAPNMKAMEKLESVRDKFQETSDEFEAARK
RAKKAKQAFEQIKKERFDRFNACFESVATNIDEIYKALSRNSSAQAF LGPENPEEPYLDGINYNVCVAPGKRFRPM
DNLSGGEKTVAALALLFAIHSYKPAPFFVLDEIDAALDNTNIGKVANYIKEQSTCNFQAIVISLKEEFYTKAESL
IGVYPEQGDVCISKVLTFDLTKYPDANPNPNEQ

6708/6881
FIGURE 6194

CCGGGACGTACGTGGACTGGGGCCGGATAATGCGGGCGCTGCAGAAGATGCGCGAGCTCTTTTCCGGGCTGGG
GTCTGCGCGGCCCTGGAGGCCTGGCCGGCCTTGACAGATCGCTGTGGAGAATGGCTTCGGGGGTGTGCACAGCCAG
GAGAAGGCCAAGTGGCTGGGGGGTGACGTGGAGGATTACTTCATGCGCAATGCTGACTTGGAGCTAGATGAGGTG
GAAGACTTCCTTGGAGAGCTGTTGACCAACGAGTTTGATACAGTTGTGGAAGACGGGAGTCTGCCCCAGGTGAGC
CAGCAACTGCAGACCATGTTCCACCACTTCCAGAGGGGTGATGGGGCTGCTCTGAGGGAGATGGCCTCCTGCATC
ACTCAGAGAAAATGCAAGGTCACAGCCACTGCACTTAAGACAGCTAGAGAGACTGATGAGGATGAAGATGATGTG
GACAGTGTGGAAGAGATGGAGGTACAGCTACGAATGATGGGGCTGCTACAGATGGGGTCTGCCCCAGCCTGAA
CCCTCTGATCCAGACGCTCAGACTATTAAGGAAGAGGATATAGTGAAGATGGCTGGACCATTGTCCGGAGAAAA
AAATGAGTGGGGATGATTGGAATGGCTTTGGGCCCTTATTTGCTGTTCTAAGAGTTGTCTGTAGGGGTTTTTTT
TTTGAGGATTGCAGACCTGTGGACTGGTTACCCCATCTCCACCCTCTCCCCTGTTCTCTGTCTGGCTCCCTCCA
GGGCAAGGAAAACCTAGGGTCCTTGGTCTTGGGGGTGGGGGGACCTTTTCCAGCATATTCCTTGGGCCCTTAGT
TAACATCCGAGTGACGAAGCCGGGTTCCCAGTACAGTGTCTTTTGGGTGCGGTCAATTGTGAGGAAGGGGATGAG
TGAGTGTGGGTGTGGCTGGAGGAGGAGCTAGATGCCGTGGACAGTGGGCAGGTGGATTGAGGAGGAGAGGATC
AGCAGCAGCAGCAGTACTCAGTGATAGGGGGCTGGCTGGGTGAGGAATGGTGAGATGAACATGCAAGTGAAGAG
AGAATAGTTGAAAATGTGAATGAAAGTAGCTCTGGAGCCTCTCCCTTACCCACCCACACACACGCAACAGCTC
TGTACCCCTGCCCAGAACTTGGAACCTCCCAGGAATGCTGCCTTCCTTCAGCCAGCCTCCAGTCTCTGGGTTCCT
TCAGGAATTCGAAGACCTTGGCTAGGTGGTGAGCTTGAAGAGCTGGGCTTTGTTTTCTGTCTCTCTAACCTCT
TTCCTTACTCCTTATCCCATCCCATTTGAGTTCAGGGGTGAGGCTTAAGATCTTAATAAATAATACCTTACTGCT
TAATCTGTGGCTTGACCTGTGAGTAGTAGCCTTAGAATCAGCCTTCTGGGAGCTCAGCTTCAGAGTTTACAAGGG
AGCAGTTTCTGGGCCACCCTAGCAGCCTGGTACTTTGGACAACCAAACAGATGAACGAACGGAGCACAGCAGTG
CTATGAAAGTTACTGTAAGCCTGAAATAAACTGTATTTTCT

6709/6881

FIGURE 6195

MAGAAEDARALFRAGVCAALEAWPALQIAVENGFGGVHSQEKAKWLGGAVEDYFMRNADLELDEVEDFLGELLTN
EFDTVVEDGSLPQVSQQLQTMFHHFORGDGAALREMA SCITQRKCKVTATALKTARETDEDEDVDSVEEMEVTA
TNDGAATDGVCPQPEPSDPDAQTIKEEDIVEDGWTIVRRKK

6710/6881
FIGURE 6196

GATCCGGAAGTCGGAGCCTAGCTGCGCGAGAGTTTCTGCTCGCTCAACCGAGTTGTCGTGTTGCCCTCGCTTCTC
AGATCCCCGCCGGAAGTGAAGAGAGCAAGCAGATTTGAACCTATCTGCTTTCAAGCTGGTCATCATGATGAAACT
TAGACACAAAAATAAAAAGCCAGGTGAAGGTTCCAAGGGCCACAAGAAGATAAGTTGGCCCTACCCTCAGCCTGC
AAAGCAAAATGGGAAGAAAGCAACCTCCAAAGTGCCCTCTGCACCTCATTTTGTTCACCCCAATGATCATGCCAA
TCGAGAGGGCTGAATTAAAGAAGAAGTGGGTTGAGGAGATGAGGGAGAAGCAGCAAGCCGCCGGGAGCAAGAAAG
ACAAAAACGCAGGACCATTGAGAGCTACTGTGAGGATGTCTTAAGACGCCAGGAGGAGTTTGAGCATAAGGAGGA
AGTTTTGCAGGAATTAAATATGTTTCCTCAGCTGGATGACGAGGCCACGAGGAAGGCTTATTACAAGGAGTTCCG
TAAGGTGGTGGAACTACTCTGATGTGATTCTGGAAGTCCTGGATGCCAGAGACCCATTAGGCTGCCGCTGCTTCCA
AATGGAGGAGGCTGTCTGCGAGCACAAAGGCAACAAGAAGCTGGTCCTGGTCTTGAACAAGATTGACCTGGTCCC
CAAGGAGGTTGTGGAGAAATGGCTGGATTACCTTCGGAATGAGTTGCCAACCGTGGCTTTCAAGGCCAGTACCCA
GCATCAGGTCAAAAACCTGAATCGTTGCAGTGTGCCAGTAGATCAGGCCTCTGAGTCACTGCTGAAAAGCAAAGC
CTGCTTTGGAGCTGAAAACCTCATGAGGGTCTGCGGAACTATTGCCGCCTTGGTGAAGTGCGCACCCACATTCTG
TGTGGGTGTTGTGGGTCTTCCCAATGTTGGGAAGAGCAGCCTGATCAATAGCCTGAAGCGCAGCCGCGCATGCAG
CGTGGGAGCTGTTCTTGAATTACCAAATTCATGCAGGAGGTCTACCTGGACAAGTTTATCCGGCTCTTGGATGC
TCCAGGCATTGTCCCAGGGCCCAACTCAGAGGTGGGCACCATCCTGCGTAACTGCGTCCACGTGCAGAAGCTGGC
AGACCCTGTGACCCCACTGGAGACCATCCTGCAGCGCTGCAACCTGGAGGAGATTTCCAATATTATGGCGTCTC
TGGGTTCCAGACCACTGAGCACTTTCTGACGGCAGTGGCCACCCTTGGGGAAGAAGAAGAAGGGAGGCTTATA
TAGTCAGGAACAGGCGGCCAAAGCTGTCTAGCTGACTGGGTGAGCGGGAAGATCAGCTTCTATATACCACCACC
AGCCACTCACACTCTGCCCACCCATCTCAGTGCTGAGATCGTTAAGGAAATGACCGAGGTCTTTGACATCGAGGA
TACTGAGCAGGCCAATGAAGACACCATGGAATGCTTGGCCACCGGAGAATCTGATGAGCTGTTGGGTGACACGGA
CCCCTTGAAATGGAGATCAAGTTGCTCCATTCTCCGATGACGAAAATAGCAGATGCCATTGAAAATAAAACCAC
CGTGTATAAGATTGGAGATCTCACTGGGTATTGCACCAATCCGAACCGTCATCAGATGGGGTGGGCTAAACGCAA
TGTGGACCACCGCCCTAAGAGCAACAGTATGGTGGATGTCTGCTCAGTGGACCGCCGCTCAGTGCTGCAGAGGAT
CATGGAGACGGACCCCTGCAACAGGGCCAGGCTCTGGCATCTGCCCTGAAAAATAAGAAGAAGATGCAGAAACG
TGCAGATAAAATCGCCAGCAAGCTGTCTGATTCCATGATGTCTGCTCTCGACCTCTCTGGCAATGCTGATGATGG
TGTTGGTGACTAATCGACTGATCTCACTTCCCTTCCGCTCCAAGCACCAGTTCCGGTGGTACGGGGGAATACCAG
TGAAATAGTTTGGTTCTCCCTGAAGCATCTGCATATTGAAAGAACGCTTTCCCCACTGTGTGTCTTCTCCCCCTC
CTCCAGTAAAAACAGTCCCCGGCTAGGTGCTGTGGCTCACGTCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGG
CAGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCGCTCTCTACTAAAAATACAAA
AAAATTTAGCCGTGCTTAGTGGCACCTATAATCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCCTGAACCT
GGGAGACTAAGGCAGGAGAATCGCCTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCCAGACGGCACCATTGCACT
CTAGCCTGGGCAACAACACGAACTCCGTCCC

6711/6881
FIGURE 6197

TAGAGAAGGCAGACGCATCCCGAACTCGCTGGAGGACAAGGCTCAGCTCTTGCCAGGCCAAATTGAGACATGTCT
GACACAAGCGAGAGTGGTGCAGGTCTAACTCGCTTCCAGGCTGAAGCCTCAGAAAAGGACAGTAGCTCGATGATG
CAGACTCTGTTGACAGTGACCCAGAATGTGGAGGTCCCAGAGACACCGAAGGCCTCAAAGGCACTGGAGGTCTCA
GAGGATGTGAAGGTCTCAAAGCCTCTGGGGTCTCAAAGGCCACAGAGGTCTCAAAGACCCAGAGGCTCGGGAG
GCACCTGCCACCCAGGCCTCATCTACTACTCAGCTGACTGATACCCAGGTTCTGGCAGCTGAAAACAAGAGTCTA
GCAGCTGACACCAAGAAACAGAATGCTGACCCGAGGCTGTGACAAATGCCTGCCACTGAGACCAAAAAGGTCAGC
CATGTGGCTGATACAAAGGTCAATACAAAGGCTCAGGAGACTGAGGCTGCACCCTCTCAGGCCCCAGCAGATGAA
CCTGAGCCTGAGAGTGCAGCTGCCCAGTCTCAGGAGAATCAGGATACTCGGCCCAAGGTCAAAGCCAAGAAAGCC
CGAAAGGTGAAGCATCTGGATGGGGAAGAGGATGGCAGCAGTGATCAGAGTCAGGCTTCTGGAACCACAGGTGGC
CGAAGGGTCTCAAAGGCCCTAATGGCCTCAATGGCCCGCAGGGCTTCAAGGGGTCCCATAGCCTTTTGGGCCCGC
AGGGCATCAAGGACTCGGTTGGCTGCTTGGGCCCGGAGAGCCTTGCTCTCCCTGAGATCACCTAAAGCCCGTAGG
GGCAAGGCTCGCCGTAGAGCTGCCAAGCTCCAGTCATCCCAAGAGCCTGAAGCACCACCACCTCGGGATGTGGCC
CTTTTGCAAGGGAGGGCAAATGATTTGGTGAAGTACCTTTTGGCTAAAGACCAGACGAAGATTCCCATCAAGCGC
TCGGACATGCTGAAGGACATCATCAAAGAATACACTGATGTGTACCCCGAAATCATTGAACGAGCAGGCTATTCC
TTGGAGAAGGTATTTGGGATTCAATTGAAGGAAATTGATAAGAATGACCACTTGTACATTCTTCTCAGCACCTTA
GAGCCCACTGATGCAGGCATACTGGGAACGACTAAGGACTCACCCAAGCTGGGTCTGCTCATGGTGCTTCTTAGC
ATCATCTTCATGAATGGAAATCGGTCCAGTGAGGCTGTCTCTGGGAGGTGCTGCGCAAGTTGGGGCTGCGCCCT
GGGATACATCATTCACTCTTTGGGGACGTGAAGAAGCTCATCACTGATGAGTTTGTGAAGCAGAAGTACCTGGAC
TATGCCAGAGTCCCAATAGCAATCCCCCTGAATATGAGTTCTTCTGGGGCCTGCGCTCTTACTATGAGACCAGC
AAGATGAAAGTCCTCAAGTTTGCCTGCAAGGTACAAAAGAAGGATCCCAAGGAATGGGCAGCTCAGTACCGAGAG
GCGATGGAAGCGGATTTGAAGGCTGCAGCTGAGGCTGCAGCTGAAGCCAAGGCTAGGGCCGAGATTAGAGCTCGA
ATGGGCATTGGGCTCGGCTCGGAGAATGCTGCCGGGGCCCTGCAACTGGGACGAAGCTGATATCGGACCCTGGGCC
AAAGCCCGGATCCAGGCGGGAGCAGAAGCTAAAGCCAAAGCCCAAGAGAGTGGCAGTGCCAGCACTGGTGCCAGT
ACCAGTACCAATAACAGTGCCAGTGCCAGTGCCAGCACCAGTGGTGGCTTCAGTGCTGGTGCCAGCCTGACCGCC
ACTCTCACATTTGGGCTCTTCGCTGGCCTTGGTGGAGCTGGTGCCAGCACCAGTGGCAGCTCTGGTGCCCTGTGGT
TTCTCCTACAAGTGAGATTTTAGATATTGTTAATCCTGCCAGTCTTTCTCTTCAAGCCAGGGTGCATCCTCAGAA
ACCTATCCAACACAGCACTCTAGGCAGCCACT

6712/6881
FIGURE 6198

MSDTSESGAGLTRFQAEASEKDSSSMQTLLTVTONVEVPETPKASKALEVSEDVKVSKASGVSKATEVSKTPEA
REAPATQASSTTQLTDTQVLAAENKSLAADTKKQNADPQAVTMPATETKKVSHVADTKVNTKAQETEAAPSQAPA
DEPEPESAAAQSQENQDTRPKVKAKKARKVKHLDGEEDGSSDQSQASGTTGGRRVSKALMASMARRASRGPIAFW
ARRASRTRLAAWARRALLSLRSPKARRGKARRRAAKLQSSQEPEAPPPRDVALLQGRANDLVKYLLAKDQTKIP I
KRSDMLKDIIKEYTDVYPEIIERAGYSLEKVFGIQLKEIDKNDHLYILLSTLEPTDAGILGTTKDS PKLGLLMVL
LSIIFMNGNRSSEAVIWEVLRLKGLRPGIHHS LFGDVKKLITDEFVKQKYLDYARVPNSNPPEYEFFWGLRSYYE
TSKMVKLKFACKVQKKDPKEWAAQYREAMEADLKAAAEAAAEAKARAEIRARMGIGLSENAAGPCNWDEADIGP
WAKARIQAGAEAKAKAQESGSASTGASTSTNNSASASASTSGGFSAGASLTATLTFGLFAGLGAGASTSGSSGA
CGFSYK

6713/6881
FIGURE 6199

TGGCCAACTTCTGAACAGGAAGCAGTTCGCTCGCGCCTAGGTTGGCGCGGGCTGGGAGGTGTTCCAGCCCTTTAA
GATGTTGCGCGTGGTGAGCTGGAACATCAATGGGATTTCGGAGACCCCTGCAAGGGGTGGCAAATCAGGAACCCAG
CAACTGTGCCGCCGTGGCCGTGGGGCGCATTTTGGACGAGCTGGATGCGGATATCGTCTGTCTCCAGGAAACCAA
AGTGACCAGGGATGCACTGACAGAGCCCCCTGGCTATCGTTGAGGGTTATAACTCCTATTTTCAGCTTCAGCCGCAA
CCGTAGCGGCTATTCTGGTGTAGCCACCTTCTGTAAGGACAATGCTACCCCACTGGCTGCTGAAGAAGGCCTGAG
TGGCCTGTTTGCCACCCAGAAATGGGGATGTTGGTTGCTATGGAAACATGGATGAGTTTACCCAAGAGGAACTCCG
GGCTCTGGATAGTGAGGGCAGGGCCCTCCTCACACAGCATAAGATCCGCACATGGGAAGGTAAGGAGAAGACCTT
GACCCTAATCAACGTGTACTGCCCCCATGCGGACCCTGGGAGGCCTGAGCGGCTAGTCTTTAAGATGCGCTTCTA
TCGTTTGCTGCAAATCCGAGCAGAAGCCCTCCTGGCGGCAGGCAGCCATGTGATCATTCTGGGTGACCTGAATAC
AGCCCCACCGCCCCATTGACCACTGGGATGCAGTCAACCTGGAATGCTTTGAAGAGGACCCAGGGCGCAAGTGGAT
GGACAGCTTGCTCAGTAACCTGGGGTGCCAGTCTGCCTCTCATGTAGGGCCCTTCATCGATAGCTACCGCTGCTT
CCAACCAAAGCAGGAGGGGGCCCTTCACCTGCTGGTCAGCAGTCACTGGCGCCCGCCATCTCAACTATGGCTCCCG
GCTTGACTATGTGCTGGGGGACAGGACCCTGGTCATAGACACCTTTTCAGGCCTCTTTCCTGCTGCCTGAGGTGAT
GGGCTCTGACCACTGCCCTGTGGGTGCAGTCTTGAGTGTGTCCTCTGTGCCTGCAAAACAGTGGCCACCTCTGTG
CACCCGCTTCCCTCCCTGAGTTTGCAGGCACCCAGCTCAAGATCCTTCGCTTCCCTAGTTCCTCTCGAACAAAGTCC
TGTGTTGGAGCAGTCGACGCTGCAGCACAACAATCAAACCCGGGTACAGACATGCCAAAACAAAGCCCAAGTGCG
CTCAACCAGGCCTCAGCCCACTCAGGTTGGCTCTAGCAGAGGCCAGAAAAACCTGAAGAGCTACTTTTCAGCCCTC
CCCTAGCTGTCCCCAAGCCTCTCCTGACATAGAGCTGCCTAGCCTACCACTGATGAGCGCCCTCATGACCCCGAA
GACTCCAGAAGAGAAGGCAGTGGCCAAAGTGGTGAAGGGGCAGGCCAAGACTTCAGAAGCCAAAGATGAGAAGGA
GTTACGGACCTCATTCTGGAAGTCTGTGCTGGCGGGGCCCTTGCGCACACCCCTCTGTGGGGGCCACAGGGAGCC
ATGTGTGATGCGTACTGTGAAGAAGCCAGGACCCAACTTGGGCCGCGCTTCTACATGTGTGCCAGGCCCGGGG
TCCTCCCACTGACCCCTCCTCCCGGTGCAACTTCTTCTCTGGAGCAGGCCAGCT**GAA**CCAATGGAGGCCTGGG
GACATCTGGCATGGTCACCCCTGCACATGATCTGAGGCCAGCTCCCCTTCCCTGAGCTGCCTCCTGCTTCTCCCT
CAAAGTCTCCTACCCCTTCTTCTCTTTTAAGCCCTCTCTTCTCGCTTTTCTTCTTACCTAGCTCCTTGTGG
TGAGCTTCTTGTGCCTTAATCCTGTGACCCAGCCCTTACACCACTTTCCACCTTCCCTGTCCGAAGTACACGGAC
ACTAGCTGCCCCAGGAAGTTGTGTGATTTTAAATCACTTCTGTCTTTGCTGGAAAGTGATTTTGTGCATAAATAA
AGTCTGTGTATTTGTTTCAGGGTTGCAAAAAAAAAAAAAA

6714/6881
FIGURE 6200

MLRVVSWNINGIRRPLQGVANQEPSNCAAVAVGRILDELDADIVCLQETKVTRDALTEPLAIVEGYNSYFSFSRN
RSGYSGVATFCKDNATPVAAEEGLSGLFATQNGDVGCYGNMDEFTQEELRALDSEGRALLTQHKIRTWEGKEKTL
TLINVYCPHADPGRPERLVFKMRFYRLLQIRAEALLAAGSHVILGDLNTAHRPIDHWDVAVNLECFEEDPGRKWM
DSLNLGQCQSASHVGPFIDSYRCFQPKQEGAFTCWSAVTGARHLNYGSRLDYVLGDRTLVIDTFQASFLLEVM
GSDHCPVGAVLSVSSVPAKQCPPLCTRFLPEFAGTQLKILRFLVPLEQSPVLEQSTLQHNQTRVQTCQNKQVR
STRPQPSQVGSSRGQKNLKSYPSPSCPDIELPSLPLMSALMTPKTPEEKAVAKVVKQAKTSEAKDEKE
LRTSFWKSVLAGPLRTPLCGGHREPCVMRTVKKPGPNLGRRFYMCARPRGPPTDPSSRCNFFLWSRPS

6715/6881
FIGURE 6201

GCCACCGCCAGCAGGGAGGCGGAGGGCTAGCGAGCCAAGCGGTGGGGACGCGCTGCCTTCCTCTTTGCCTGTCT
CGCCGCCCTCCTAGACACGCTCCTCATCTACGGATCCTACCCCTCCCGCTCTTGCAAGCATTCACTCGGCCGGTC
GCCTGCTGACCCTCCTTCGCCACAGGCTCGTAGCGGAGGCAGCAGCGAGCAGGCATGAAGACCCCCAACGCACAG
GAAGCCGAAGGGCAACAAACCAGGGCAGCTGCAGGACGGGCCACTGGGTCTGCAAACATGACAAAGAAAAAAGTC
TCCCAAAGAAGCAGAGAGGCCGACCTTCATCCCAGCCCCGCAGGAACATCGTGGGCTGCAGAATTTCTCATGGA
TGGAAGGAAGGAGATGAGCCCATCACGCAGTGGAAGGAACCGTTCTGGATCAGGTGCCTATAAATCCCTCTCTT
TATCTGGTGAAATATGATGGAATTGACTGTGTCTATGGACTGGAAC TTCACAGAGATGAAAGGGTTTTGTCTCTT
AAAATTCCTTCTGACAGGGTGGCATCATCTCACATTAGTGATGCCAACCTTGCAAATACCATAATTGGCAAAGCA
GTGGAACATATGTTTGAGGGAGAGCATGGTTCTAAGGATGAATGGAGGGGGATGGTCTTAGCTCAAGCACCTATC
ATGAAAGCCTGGTTTTATATTACCTATGAGAAAGATCCTGTCTTGTACATGTACCAGCTTCTAGATGATTATAAG
GAAGGTGACCTCCGCATCATGCCAGAATCCAGTGAGTCTCCTCCAACAGAGAGGGAGCCAGGAGGAGTTGTAGAT
GGCCTAATAGGTAAGCATGTGGAATATACCAAAGAAGATGGCTCCAAAAGGATCGGCATGGTCATTACCAAGTG
GAAGCCAAACCCTCTGTGTATTTTCATCAAGTTTGATGATGATTTCATATCTATGTCTACGATTTGGTGAAAAAG
TCCTAACTGTTAGGGTAAAATTTGGCACATGTGTGGAACAAATGTATAATTTGTAGACATGAAAAAATGTTGC
CTTTCAGTGTATTGAAAGCTTATGGAATCCCTGATAACTAAACATCTTTGCCAGCATTAACTGTTGTTTTGCTCT
AAAAAATACAACTTGTGTGTACATG

6716/6881
FIGURE 6202

MKTPNAQEAEQQOTRAAAGRATGSANMTKKKVSQKKQGRPSSQPRRNIVGCRISHGWKEGDEPITQWKGTVLDQ
VPINPSLYLVKYDGIDCVYGLELHRDERVLSLKILSDRVASSHISDANLANTIIGKAVEHMFEGEHGSKDEWRGM
VLAQAPIMKAWFYITYEKDPVLYMYQLDDYKEGDLRIMPESSESPTEREPGGVVDGLIGKHVEYTKEDGSKRI
GMVIHQVEAKPSVYFIKFDDDFHIYVYDLVKKS

6717/6881
FIGURE 6203

GGCAGTGGGGGTTACAGACAGCACCAGAGGCACTCAGGGCAGGAGGGTAGTGGGTGCTGGTCAAGGCCGCTTTGC
AGGGGATTGGGAGTGGATGCTAGTGGCAGTAAAGGGTAAAGGGAGGGCAGTGGGCTCTGAGCTAGGAGGAGGTGG
CCCAGCCACTTCTGCAGAGTTCCTAACCCACAGACAGCTCTACTGCACCACCCAGCCCTTCCCCACAGCCCAAAG
GAACTTAAGAGGGGAGAGCACTGCGGGCATGCAGCCAGGATTTCCAGCATTGCTTCCAGGCTCCTAGGGGAAACTT
AGGCACTAGCGCAGACTACATCCAGACATGGCTATAGGGAAAAGTTTGCCCTTGTGGCACACTGGGTGTGTCTCTC
TATCCTCTCTCCTCCCCCAGCAGGCATGAAGACCCCCAACGCACAGGAAGCCGAAGGGCAACAAACCAGGGCAGC
TGCAGGACGGGGCCACTGGGTCTGCAAACATGACAAAGAAAAAAGTCTCCCAAAAGAAGCAGAGAGGGCCGACCTTC
ATCCCAGCCCCCGCAGGAACATCGTGGGCTGCAGAATTTCTCATGGATGGAAGGAAGGAGATGAGCCCATCACGCA
GTGGAAAAGGAACCGTTCTGGATCAGGTGCCTATAAATCCCTCTCTTTATCTGGTGAAATATGATGGAATTGACTG
TGTCTATGGACTGGAACCTCACAGAGATGAAAGGGTTTTGTCTCTTAAATTCCTTCTGACAGGGTGGCATCATC
TCACATTAGTGATGCCAACCTTGCAAATACCATAATTGGCAAAGCAGTGGAACACATGTTTGAGGGGAGAGCATGG
TTCTAAGGATGAATGGAGGGGGATGGTCTTAGCTCAAGCACCTATCATGAAAGCCTGGTTTTATATTACCTATGA
GAAAGATCCTGTCTTGTACATGTACCAGCTTCTAGATGATTATAAGGAAGGTGACCTCCGCATCATGCCAGAATC
CAGTGAGTCTCCTCCAACAGAGAGGGAGCCAGGAGGAGTTGTAGATGGCCTAATAGGTAAGCATGTGGAATATAC
CAAAGAAGATGGCTCCAAAAGGATCGGCATGGTCATTACCAAGTGGAAACCAAACCCCTCTGTGTATTTTCATCAA
GTTTGATGATGATTTCCATATCTATGTCTACGATTTGGTGAAAAAGTCTTAAGTGTAGGGTAAAATTTGGCACA
TGTGTGGAACAAATGTATAATTTGTAGACATGCAAAAAATGTTGCCTTTCAGTGACTGAAAGCTTATGGAATC
CCTGATAACTAAACATCTTTGCCAGCATTAAGTGTGTTTTGCTCTAAAAAATACAAATTTGTGAATACATGACA
TGCTGTCTGTAAGCCCTTTGTCTTGTGAAAAGTTTCGGGTGTGTTTGGTAGATGGGGCATGGAAGGAACGAACAG
CTGTCAATTTTCGGCTGTGAATAAAGTTTCAGCTAGAATCATAATCAGTCATTTAAAAATGGCACTGGATTTAGCTG
GTCTGGTCTGGAGGGGGCAGGGGAAGGAACAAGAGATTGGCTGTCTTGGGGAGAGAGGAGGAGGTGACTGCTTAG
GAAGAGGTGGAAGGGGCCAGAAAGGGAGGGGCTCCTTGGGGGAGGGGATGACCTATGAGAAGGAACATCCAAC
TCAGAAGGAAGACTAACAGAGGGGAGAGTGAGATCTTGGGGCTTAGAGGAAAAATAGAATAAAGTGAAGAGAGGA
ACACAAAGAAGCTTAGAAGAGGGTCCAGAGTAAGGTGGAGAAGGATCAACCTGACAGGGATCTGGGAGAGGCTAA
AGGATACACAAAGGAAGAGGCTATGTGGGTTAGGGTGTGGAGGGATTAGAAGAGGGCCACTGAGGAAGGAGGAA
TTCAAAGAAGAAAGACTGACAGAGGGAGTGAGAATACAGGAAAAGAGTTGTGGGGTATGGGGCCCATGAGAGATC
GGAAGGCCCAGGAAAAATGTTGGACTTCTGGTAGTGTCCACATTGCTCTTCCCTGGCTCTATGCACAAAGGAAGTGG
CAACTGTCAAAGATGCCAGATGCATTGGAGGTTCACTAGAAGAGCATGTTGACAGGAATGACTCAGTCAAGTTAA
TCAGGAGCCAAGTTTATGCCCATAAGGCTTTTCTGTTTCAGGGAGTTAATGACACACTTGTCCAGCAGAAACCC
AATGCTCAGCCTAAACACGCTAACATGGTGCCCCACATGTGCTGGGCTGTGGGCTGCCTCCTCACATTTGTCCTG
CGCTAGATAAGCAATCTTGGTAGAGGATGGGTTAGTGGGGCTCTCAGAACTTAAGAGATGTGCCATCTTGCAATTT
GGAAAGTACTTTATCCAGAAAAAATGAAATCTTACTGAACTCAGGTACAGCAGTCTCATCACTCTTCTCTCT
GCTGGAATGTTTGTCTTCTATCTAGAGATGAGGGGCATCAGAGGACTGAGCCTAGTGTCTCTCGAG

6718/6881
FIGURE 6204

GGTAGCAGGAGGCTGGAAGAAAGGACAGAAAGTAGCTCTGGCTGTGATGGGGATCTTACTGGGCCTGCTACTCCTG
GGGCACCTAACAGTGGACACTTATGGCCGTCCCATCCTGGAAGTGCCAGAGAGTGTAACAGGACCTTGGAAGGG
GATGTGAATCTTCCCTGCACCTATGACCCCTGCAAGGCTACACCCAAGTCTTGGTGAAGTGGCTGGTACAACGT
GGCTCAGACCCTGTCAACATCTTTCTACGTGACTCTTCTGGAGACCATATCCAGCAGGCAAAGTACCAGGGCCGC
CTGCATGTGAGCCACAAGGTTCCAGGAGATGTATCCCTCCAATTGAGCACCCCTGGAGATGGATGACCGGAGCCAC
TACACGTGTGAAGTCACCTGGCAGACTCCTGATGGCAACCAAGTCGTGAGAGATAAGATTACTGAGCTCCGTGTC
CAGAAACTCTCTGTCTCCAAGCCCACAGTGACAACTGGCAGCGGTTATGGCTTCACGGTGCCCCAGGGAATGAGG
ATTAGCCTTCAATGCCAGGCTCGGGGTTCTCCTCCCATCAGTTATATTTGGTATAAGCAACAGACTAATAACCAG
GAACCCATCAAAGTAGCAACCTAAGTACCTTACTCTTCAAGCCTGCGGTGATAGCCGACTCAGGCTCCTATTTTC
TGCACTGCCAAGGGCCAGGTTGGCTCTGAGCAGCACAGCGACATTGTGAAGTTTGTGGTCAAAGACTCCTCAAAG
CTACTCAAGACCAAGACTGAGGCACCTACAACCATGACATACCCCTTGAAAGCAACATCTACAGTGAAGCAGTCC
TGGGACTGGACCACTGACATGGATGGCTACCTTGGAGAGACCAGTGCTGGGCCAGGAAAGAGCCTGCCTGTCTTT
GCCATCATCCTCATCATCTCCTTGTGCTGTATGGTGGTTTTTACCATGGCCTATATCATGCTCTGTGCGGAAGACA
TCCCAACAAGAGCATGTCTACGAAGCAGCCAGGGCACATGCCAGAGAGGCCAACGACTCTGGAGAAACCATGAGG
GTGGCCATCTTCGCAAGTGGCTGCTCCAGTGATGAGCCAACTTCCAGAATCTGGGCAACAACACTACTCTGATGAG
CCCTGCATAGGACAGGAGTACCAGATCATCGCCAGATCAATGGCAACTACGCCCGCCTGCTGGACACAGTTTCT
CTGGATTATGAGTTTCTGGCCACTGAGGGCAAAAGTGTCTGTTAAAAATGCCCCATTAGGCCAGGATCTGCTGAC
ATAATTGCCTAGTCAGTCCTTGCCCTTCTGCATGGCCTTCTTCCCTGCTACCTCTCTTCTGGATAGCCCCAAAGTG
TCCGCCTACCAACACTGGAGCCGCTGGGAGTCACTGGCTTTGCCCTGGAATTTGCCAGATGCATCTCAAGTAAGC
CAGCTGCTGGATTTGGCTCTGGGCCCTTCTAGTATCTCTGCCGGGGGCTTCTGGTACTCCTCTCTAAATACCAGA
GGGAAGATGCCCATAGCACTAGGACTTGGTCATCATGCCTACAGACACTATTCAACTTTGGCATCTTGCCACCAG
AAGACCCGAGGGAGGCTCAGCTCTGCCAGCTCAGAGGACCAGCTATATCCAGGATCATTTCTCTTTCTTCAGGGC
CAGACAGCTTTTAATTGAAATTGTTATTTACAGGCCAGGGTTCAGTTCTGCTCCTCCACTATAAGTCTAATGTT
CTGACTCTCTCCTGGTGCTCAATAAATATCTAATCATAACAGCAAAAAAAAAAAAAAAAAAAAAA

6719/6881
FIGURE 6205

MGILLGLLLLGHLLTVDTYGRPILEVPESVTGPWKGDVNLPCITYDPLQGYTQVLVKWLVQRGSDPVTIFLRDSSGD
HIQQAKYQGRLHVSHKVPDVSLLQSLSTEMDDRSHTCEVTWQTPDGNQVVRDKITELRVQKLSVSKPTVTTGSG
YGFTVPQGMRLSLQCQARGSPPISYIWKQQTNNQEPKIVATLSTLLFKPAVIADSGSYFCTAKQVGSEQHSDI
VKFVVKDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTDMGYLGETSAGPGKSLPVFAIILIIISLCCMVFT
MAYIMLCRKTSQQEHVYEAARAHAREANDSGETMRVAIFASGCSSDEPTSQNLGNNYSDEPCIGQEYQIIAQING
NYARLLDTVPLDYEFLEGKSV

6720/6881
FIGURE 6206

CAGTAGTGCTAGCAGCTTCGCGGTTTCGGTCCTCGGACCCGGCAGCCACCACTGGTGCTGAGCTGCTAGGAAGCCC
CTATCGGCGAGCTCTTTGGAGCTTGAACCCATTGTCACTCCTCCGACTCACCGGAAAAACAAAAATGGGTGAA
GCAGATCGCCTAGGAAAGTTTTTCATTGGTGGGCTTAATACGGAAACAAATAAGAAAGCTCTTGAAGCAGTATTT
GGCAAATATGGACAAATAGTGGAAGTACACTTGATGAAAGACTGTGAAACCAACAAATCAAGAGGATTTTGCTTTT
ATCACCTTTGAAAGACCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGGAAAAGCC
ATCAAGGTGGAACAAGCCACCAACCGTCATTTGAAAGTGGTAGACGTGGACCGCCTCCACCTCCAAGAAGTAGA
GGCCCTCCAAGAGTTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACCAAGGGAACCTCCCTCACGGGGAGGACAC
ATGGATGACTGGTGGATATTCCATGAATTTTAACATGAGTTCTTCCAGGGGACCACTCCAGTAAAAAGAGGACC
ACCACCAAGAAGTGGGGGTCTTCTCCTAAGAGATCTGCACCTTCAGGACCAGTTTCGCAGTAGCAGTGGAATGGG
AGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTACCGAGGTCCACCTCGAAGGGAATCGCTGCCCTCTTG TAG
AGAGCTCCACCTACACGAGGGCGCCCCCATCTTATGGTGGAGCAGTCGCTATGATGATTACAGCAGCTCACGTG
ACGGATATGGTGGAAAGTCGAGACAGTTACTCAAGCAGTCGAAGTGATCTCTACTCAAGTGGTCGTGATCAGGTTG
GCAGACAAGAAAGAGGGCTTCCCCCTTCTATGGAAAGGGGGTACCCTCCTCCACGTGATTCTTACAGCAGTTCAA
GCCGTGGAACACCAAGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATACTAGA
AACAAACAAAACTTTGTACCAAAATCCCAGTTCAAAGAAACAAAAAGTGGAACCTATTCTATCATAACTACCCAA
GAACTACTAAAAGGAAAAATTGTGTTACCTTTTTTAAAATTCCCTGTTAAGCTCCCCTCCATAATTTTTATGTTT
TTGTGAGGAAAAAAGTAAAACATGTTTAATTTTATTTGACTTTTGCAATTGCTTTTCAACAAGCAAATGTTAAAT
GTGTTAAGACTTATACTAGTGTTGTAACCTTTCCAAGTAAAAGTATCCCTAAAGGCCACTTCCTATCTGATTTTTT
CCAGTAAATGAGGCAGGCAATTCTAAGATCTTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTC
TACCTACACAAACAAGCTAGCTATTAGAGGGTGGTTGGGATATGCTACTCATAAGATTTTCAGGGTGTCTTCCAAC
TGAAATCTCAATGTTCTTAGTATGAAAAACCTGAAATCGCATGCCTATTCACCCAGTAAACCCAAAAAGCAAAT
GGATAATGCTGGCCATTCTGCCTTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCCTTTCCCCTCCCCAA
TAAGACCATTTAAGTGTGTGCTAAACAATAAGAATACTAAATAAAATGTTTGGCCAAAACC

6721/6881
FIGURE 6207A

GGCCAGCCGAATCCAAGCCGTGTGTACTGCGTGCTCAGCACTGCCCGACAGTCCTAGCTAAACTTCGCCAACTCC
GCTGCCTTTGCCGCCACCATGCCCCAAAACGATCAGTGTGCGTGTGACCACCATGGATGCAGAGCTGGAGTTTGCC
ATCCAGCCCAACACCACCGGGAAGCAGCTATTTGACCAGGTGGTGAAAACCTATTGGCTTGAGGGAAAGTTTGGTTC
TTTGGTCTGCAGTACCAGGACACTAAAGGTTTTCTCCACCTGGCTGAAACTCAATAAGAAGGTGACTGCCAGGAT
GTGCGGAAGGAAAGCCCCCTGCTCTTTAAGTTCCGTGCCAAGTTCTACCCTGAGGATGTGTCCGAGGAATTGATT
CAGGACATCACTCAGCGCCTGTTCTTTCTGCAAGTGAAAGAGGGCATTCTCAATGATGATATTTACTGCCCCGCT
GAGACCGCTGTGCTGCTGGCCTCGTATGCTGTCCAGTCTAAGTATGGCGACTTCAATAAGGAAGTGCATAAGTCT
GGCTACCTGGCCGGAGACAAGTTGCTCCCGCAGAGAGTCTTGAACAGCACAACTCAACAAGGACCAGTGGGAG
GAGCGGATCCAGGTGTGGCATGAGGAACACCGTGGCATGCTCAGGGAGGATGCTGTCTGGAATATCTGAAGATT
GCTCAAGATCTGGAGATGTATGGTGTGAAGTACTTACAGCATCAAGAACAAGAAAGGCTCAGAGCTGTGGCTGGGG
GTGGATGCCCTGGGTCTCAACATCTATGAGCAGAATGACAGACTAACTCCCAAGATAGGCTTCCCCTGGAGTGAA
ATCAGGAACATCTCTTTCAATGATAAGAAATTTGTTCATCAAGCCCATTGACAAAAAGCCCCGGACTTCGTCTTC
TATGCTCCCCGGCTGCGGATTAACAAGCGGATCTTGGCCTTGTGCATGGGGAACCATGAAGTATACATGCGCCGT
CGCAAGCCTGATACCATTGAGGTGCAGCAGATGAAGGCACAGGCCCGGGAGGAGAAGCACCAGAAGCAGATGGAG
CGTGCTATGCTGGAAAATGAGAAGAAGAAGCGTGAAATGGCAGAGAAGGAGAAGAGATTGAACGGGAGAAG
GAGGAGCTGATGGAGAGGCTGAAGCAGATCGAGGAACAGACTAAGAAGGCTCAGCAAGAAGTGAAGAACAGACC
CGTAGGGCTCTGGAAGTTGAGCAGGAACGGAAGCGTGCCAGAGCGAGGCTGAAAAGCTGGCCAAGGAGCGTCAA
GAAGCTGAAGAGGCCAAGGAGGCCTTGCTGCAGGCCTCCCGGGACCAGAAAAAGACTCAGGAACAGCTGGCCTTG
GAAATGGCAGAGCTGACAGCTCGAATCTCCAGCTGGAGATGGCCCCGACAGAAGAAGGAGAGTGGGCTGTGGAG
TGGCAGCAGAAGGCCAGATGGTACAGGAAGACTTGGAGAAGACCCGTGCTGAGCTGAAGACTGCCATGAGTACA
CCTCATGTGGCAGAGCCTGCTGAGAATGAGCAGGATGAGCAGGATGAGAATGGGGCAGAGGCTAGTGTGACCTA
CGGGCTGATGCTATGGCCAAGGACCGCAGTGAGGAGGAACGTACCCTGAGGCAGAGAAGAATGAGCGTGTGCAG
AAGCACCTGAAGGCCCTCACTTCGAGCTGGCCAATGCCAGAGATGAGTCCAAGAAGACTGCCAATGACATGATC
CATGCTGAGAACATGCGACTGGGCCGAGACAAATACAAGACCCTGCGCCAGATCCGGCAGGGCAACACCAAGCAG
CGCATTGACGAATTTGAGTCTATGTAATGGGCACCCAGCCTCTAGGGACCCCTCCTCCCTTTTTCTTGTCCCCA
CACTCCTACACCTAACTCACCTAACTATACTGTGCTGGAGCCACTAACTAGAGCAGCCCTGGAGTCATGCCAAG
CATTTAATGTAGCCATGGGACCAAACCTAGCCCTTAGCCCCACCCACTTCCCTGGGCAAATGAATGGCTCACT
ATGGTGCCAATGGAACCTCCTTTCTTCTCTGTTCCATTGAATCTGTATGGCTAGAATATCCTACTTCTCCAGC
CTAGAGGTACTTTCCACTTGATTTTGAAATGCCCTTACACTTACTGTTGTCTATGGGAGTCAAGTGTGGAGTA
GGTTGGAAGCTAGCTCCCCCTCCTCTCCCTACCCTGTCTTCTTCAGGGTCTGAGATTTACACGGTTGGAGTGT
TATGCGGTCTAGGGAATGAGACAGGACCTAGGATATCTTCTCCAGGATGTCAACTGACCTAAAATTTGCCCTCCC
ATCCCGTTTLAGAGTTATTTAGGCTTTGTAAAGATTGGGGGATAAAAAGATGTTTCAAGTCAATTTTGTCTTACCTC
CCAGATCGGATCTGTTGCAAACCTCAGCCTCAATAAGCCTTGTGCTTGAAGTTAGGGACTCAATTTCTCCCCAGGG
TGGATGGGGGAAAATGGTGCCCTTCAAGACCTTACCAAACATACTAGAAGGGCATTGGCCATTCTATTGTGGCAAG
GCTGAGTAGAAGATCCTACCCCAATTCCTTGTAGGAGTATAGGCCGGTCTAAAGTGAGCTCTATGGGCAGATCTA
CCCCTTACTTATTATTCAGATCTGCAGTCACTTCGTGGGATCTGCCCCCTCCCTGCTTCAATACCCAAATCCTCT
CCAGCTATAACAGTAGGGATGAGTACCCAAAAGCTCAGCCAGCCCCATCAGGACTCTTGTGAAAAGAGAGGATAT
GTTACACCTAGCGTCAGTATTTCCCTGCTAGGGGTTTTAGGTCTCTTCCCCCTCTCAGAGCTACTTGGGCCATA
GCTCCTGCTCCACAGCCATCCAGCCTTGGCATCTAGAGCTTGATGCCAGTAGGCTCAACTAGGGAGTGAAGTGA
AAAAGCTGAGTATGGTGAGAGAAGCCTGTGCCCTGATCCAAGTTTACTCAACCTCTCAGGTGACCAAAATCCCC
TTCTCATCACTCCCCCTCAAAGAGGTGACTGGGGCCTGCCTCTGTTTGACAAACCTCTAACCCAGGTCTTGACAC
CAGCTGTTCTGTCCCTTGGAGCTGTAAACCAGAGAGCTGCTGGGGATTCTGGCCTAGTCCCTTCCACACCCCCAC
CCCTTGCTCTCAACCCAGGAGCATCCACCTCCTTCTGTCTCATGTGTGCTCTTCTTCTTCTACAGTATTATG
TACTCTACTGATATCTAAATATTGATTCTGCCTTCCTTGCTAATGCACCATTAGAAGATATTAGTCTTGGGGCA
GGATGATTTTGGCCTCATTACTTTACCACCCCCACACCTGGAAAGCATATACTATATTACAAAATGACATTTTGC
CAAAATTATTAATATAAGAAGCTTTTCACTATTAGTGTATGTCTGTCACTATAGGTCATACAATCCATTCTTAA
AGTACTTGTTATTTGTTTTTATTATTACTGTTTGTCTTCTCCCCAGGGTTCAGTCTCAAGGGGGCCATCCTGTCC
CACCATGCAGTGCCCCCTAGCTTAGAGCCTCCCTCAATCCCCCTGGCCACCACCCCCCACTCTGTGCCTGACCTT

6722/6881
FIGURE 6207B

GAGGAGTCTTGTGTGCATTGCTGTGAATTAGCTCACTTGGTGATATGTCCTATATTGGCTAAATTGAAACCTGGA
ATTGTGGGGCAATCTATTAATAGCTGCCTTAAAGTCAGTAACTTACCCTTAGGGAGGCTGGGGGAAAAGGTTAGA
TTTTGTATTCAGGGGTTTTTTGTGTACTTTTTGGGGTTTTTTAAAAATTGTTTTTGGAGGGGTTTATGCTCAATCC
ATGTTCTATTTTCAGTGCCAATAAAATTTAGGAAGACTTC

6723/6881
FIGURE 6208

MPKTISVRVTMDAELEFAIQPNTTGKQLFDQVVKTIGLREVWFFGLQYQDTKGFSTWLKLNKKVTAQDVRKESP
LLFKFRAKFYPEDVSEELIQDITQRLFFLQVKEGILNDDIYCPPETAVLLASYAVQSKYGDFNKEVHKSGYLAGD
KLLPQRVLEQHKLNDQWEERIQVWHEEHARGMLREDAVLEYLKAQDLEMYGVNYFSIKNKKGSELWLGVDALGL
NIYEQNDRLTPKIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVFYAPRLRINKRILALCMGNHELYMRRRKPDIT
EVQQMKAQAREEKHQKQMERAMLENEKKKREMAEKEKEKIEREKEELMERLKQIEEQTKKAQQELEEQTRALEL
EQERKRAQSEAEKLAKERQEAEAKEALLQASRDQKKTQEQLALEMAELTARISQLEMARQKKESEAVEWQOKAQ
MVQEDLEKTRAELKTAMSTPHVAEPAENEQDEQDENGAEASADLRADAMAKDRSEEERTTEAEKNERVQKHLKAL
TSELANARDESKKTANDMIHAENMRLGRDKYKTLRQIRQGNTKQRIDEFESM

6724/6881
FIGURE 6209

TAGAAGATCCTACCCCAATTCCTTG TAGGAGTATAGGCCGGTCTAAAGTGAGCTCTATGGGCAGATCTACCCCTT
ACTTATTATTCCAGATCTGCAGTCACTTCGTGGGATCTGCCCCCTCCCTGCTTCAATACCCAAATCCTCTCCAGCT
ATAACAGTAGGGATGAGTACCCAAAAGCTCAGCCAGCCCCATCAGGACTCTTGTGAAAAGAGAGGATATGTTTAC
ACCTAGCGTCAGTATTTTCCCTGCTAGGGGTTTTAGGTCTCTTCCCCCTCTCAGAGCTACTTGGGCCATAGCTCCT
GCTCCACAGCCATCCCAGCCTTG GCATCTAGAGCTTGATGCCAGTAGGCTCAACTAGGGAGTGAGTGCAAAAAGC
TGAGTATGGTGAGAGAAGCCTGTGCCCTGATCCAAGTTTACTCAACCCTCTCAGGTGACCAAAATCCCCTTCTCA
TCACTCCCCCTCCAAAGAGGTGACTGGGCCCTGCCTCTGTTTGACAAACCTCTAACCAGGTCTTGACACCAGCTG
TTCTGTCCCTTGGAGCTGTAAACCAGAGAGCTGCTGGGGATTCTGGCCTAGTCCCTTCCACACCCCCACCCCTTG
CTCTCAACCCAGGAGCATCCACCTCCTTCTCTGTCTCATGTGTGCTCTTCTTCTTTCAGTATTAGTGATGTCAT

6725/6881
FIGURE 6210

GTGCGGAGCGGCGCGGCACAGAGCCTGTTGTTGAGCTCAGT**ATG**TCGTGGGAATCCGGGGCCGGGCCAGGTCTAG
GTTCCCAGGGGATGGATCTCGTGTGGAGTGCCTGGTACGGAAAGTTCGTTAAAGGGAAAGGGTCGTTGCCACTCT
CGGCCCACGGCATCGTGGTCGCCTGGCTCAGCAGGGCCGAGTGGGACCAGGTGACGGTTTATCTGTTCTGTGACG
ACCATAAGTTGCAGCGGTACGCGCTTAACCGCATCACGGTGTGGAGGAGCAGGTGACGGCAACGAACCTCCCTCTGG
CAGTGGCTTCTACTGCTGACCTGATACGCTGTAAGCTCTTGGATGTAAGTGGTGGCTTGGGCACTGATGAACCTTA
GACTGCTCTATGGCATGGCATTGGTTCAGGTTTGTGAATCTTATCTCAGAGAGGAAGACAAAGTTTGCCAAGGTCC
CCCTCAAGTGTCTGGCTCAAGAGGTAAATATTCCGGATTGGATTGTTGACCTTCGCCATGAGTTGACCCACAAGA
AAATGCCCCATATAAATGACTGCCGCAGAGGCTGCTACTTTGTCTGGATTGGCTCCAGAAGACCTATTGGTGGC
GCCAACTGGAGAACAGCCTGAGAGAGACCTGGGAGTTGGAGGAGTTCAGGGAAGGGATAGAGGAAGAGGATCAAG
AGGAAGATAAGAACATTGTTGTTGATGACATCACAGAACAGAAACCAGAGCCTCAGGATGATGGGAAAAGTACGG
AGTCAGATGTAAAGGCCGATGGAGACAGCAAAGGCAGCGAAGAGGTGGATTCTCATTGCAAAAAGGCCCTGAGTC
ATAAGAGCTATATGAAAGAGCCCGAGAAGTCTGGTATCATACGAAGAGGAGCAGTTTACGGTGCTGGAGAAAT
TTAGGTATTTACCTAAGGCCATTAAAGCGTGAATAACCCGTCCCCACGTGTAGAATGTGTCTTGGCAGAGCTCA
AGGGCGTTACATGCGAGAACAGGGAGGCTGTGCTGGATGCTTTTCTGGATGATGGCTTCCTTGTCCCCACATTTG
AACAGTTGGCAGCTTTGAGATAGAATATGAAGATGGTCAGACTGAGGTCCAGAGAGGGGAAGGTACTGACCCAA
AGTCACACAAAAACGTGGACTTGAATGACGTCCTGGTGCCAAAGCCGTTCTCTCAGTTCTGGCAGCCCCCTGCTCA
GGGGCCTGCACTCCCAGAACTTCACGCAGGCCCTATTGGAGAGGATGCTCTCTGAAGTCCAGCCTTGGGGATCA
GCGGGATCCGGCCTACCTACATCCTCAGATGGACCGTTGAAGTATCGTGGCCAACACCAAGACTGGACGGAATG
CTCGCCGATTTTCTGCAGGCCAGTGGGAAGCAAGAAGGGGCTGGAGGCTGTTCAAGTCTCCGCCTCCCTTGACT
GGCCCCGGATGGTTGAGTCCTGCTTGGGCTCACCTTGCTGGGCCAGCCCCCAACTCCTTCGGATCATCTTCAAAG
CCATGGGGCAGGGCCTGCCAGACGAGGAGCAGGAGAAGCTGCTGCGCATCTGTTCCATTTATACCCAGAGTGGAG
AAAACAGCCTGGTGCAGGAGGGCTCTGAGGCCTCCCCCATTTGGGAAGTCTCCATATACACTAGACAGCCTGTATT
GGAGCGTCAAGCCAGCCAGCTCCAGCTTCGGGTCTGAAGCAAAGGCCAGCAACAGGAGGAGCAGGGCAGTGTTA
ATGATGTCAAGGAAGAGGAGAAGGAGGAGAAAGAGGTCTTGCCAGACCAGGTAGAGGAGGAGGAAGAAAATGATG
ACCAAGAGGAGGAAGAGGAGGATGAAGATGATGAAGATGATGAAGAGGAAGACAGAATGGAGGTGGGGCCTTTCT
CTACAGGGCAAGAGTCCCCCACTGCCGAGAATGCTAGGCTTCTGGCCCAGAAAAGAGGAGCTTTGCAGGGCTCTG
CATGGCAGGTTAGCTCAGAAGACGTGCGATGGGACACATTTCCCCTAGGCCGAATGCCAGGTGACACCGAGGACC
CAGCAGAGCTCATGCTGGAGAATTATGACACCATGTATCTTTTGGACAGCCTGTGCTAGAGCAGCGGCTGGAAC
CCTCAACATGCAAGACTGACACCTTGGGCCTGAGCTGTGGTGTGGCAGTGGCAACTGCAGCAACAGCAGCAGCA
GCAACTTCGAGGGCCTTCTCTGGAGCCAGGGGCAGCTGCATGGGCTCAAACTGGCCTGCAGCTCTTCT**TGAT**GGC
CATCCCTGGTGCAAGTGTTTCATCCAGCCGTGCCAGGGCAACAGCCCACCCCTAGTACAAGTATGCTCCCTGAG
ACAACCTGGGAGACAGCCTGGATCAGCCACATCAACTCAGTTGTCCACCACAGGGGAATTTTGAATGTCTTTTGT
TTTTGTTTTGTTTTGAAAAATAATAACAGGCAACTGT

6726/6881
FIGURE 6211

MSWESGAGPGLGSQGM DLVWSAWYGKCVKGKGS LPLSAHGIVVAWLSRAEWDQVTVYLFCD DHKLQRYALNRITV
WRSRSGNELPLAVASTADLIRCKLLDVTGGLGTDELRLLYGMALVRFVNLISERKTKFAKVPLKCLAEVNI PDW
IVDLRHETHKKMPHINDCRRGCYFVLDWLQKTYWCRQLENSLRETWELEEFREGIEEEDQEEDKNIVVDDITEQ
KPEPQDDGKSTESDVKADGDSKGSEEVDSHCKKALSHKELYERARELLVS YEEEEQFTVLEKFRYLPKAIKAWNNP
SPRVECVLAELKGVTCENREAVLDAFLDDGFLVPTFEQLAALQIEYEDGQTEVQRGEGTDPKSHKNVDLNDVLP
KPFSQFWQPLLRLGLHSQNFTQALLERMLSELPALGISGIRPTYILRWTVELIVANTKTGRNARRFSAGQWEARRG
WRLFNCASLDWPRMVESCLGSPCWAS PQLLRRIIFKAMGQGLPDEEQEKLLRICSIYTQSGENSLVQEGSEASPI
GKSPYTLDSLYWSVKPASSSFGSEAKAQQQEEQGSVNDVKEEKEEKEVLPDQVEEEEENDDQEEEEDEDEDDED
EEEDRMEVGPFSTGQESPTAENARLLAQKRGALQGS AWQVSSDVWRWDTFPLGRMPGQTEDPAELMLENYDTMYL
LDQPVLEQRLEPSTCKTDTLGLSCGVGSGNCSNSSSSNFEGLLWSQGQLHGLKTGLQLF

6727/6881
FIGURE 6212

ATGAACAGCCCGGACCTCCGTCGTCCCGCGGCGACCAAAATCTCCGCTGGCCGCACCGCTGTGACTACTCCGGAC
TCGCCGGCAGAGTTTGGCCGCCGGGGAGGGTGGCCGATTGGCGGAGCGCACTCCTGCTGTTTCTCCCACCATCTC
GTGGATGTCGTCCCTCGGGTGGTGAGAGAACTTTGCAGTGGGCTGGAGCGCCCTTTGCGGAGAAGCACACGAAGT
TGGAATTGACCGGAGAATTGAGTTGCCGGGGAACAGAGCCCCGGCCGCCAGCGCGATGTTCCCGCAGAGCC
GGCACCCGACGCCGCACCAGGCTGCAGGCCAGCCCTTCAAGTTCAGTATCGCGGAGTCCCTGGACCGGATTAAAG
AGGAATTCCAGTTCCTGCAGGCGCAGTATCACAGCCTTAAATTGGAATGAACATCAACAACAGGTGGCCAGGCT
GTCGAACGTGCCAAACAGGTGACCATGGCAGAGTTGAATGCCATCATCGGGCAGCAGCAGTTGCAAGCTCAGCAT
CTTCTTATGGCCACGGACCCCCAGTTCCCCTTACGCCTCACCCCTCGGGACTTCAGCCTCCTGGAATCCCGCCC
CTCGGGGGCAGTGCCGGTCTTCTTGCACTGTCTAGTGCTCTGAGTGGGCAATCTCACTTGGCAATAAAAGATGAC
AAGAAGCATCAAGATGCAGAGCACCACAGAGATGAGAGGCCCGGCAAGCCAGATTAG

6728/6881
FIGURE 6213

MNSPDLRRPAATKISAGRTAVTTPDSPAEFARRGGWPIGGAHSCCFSHHLVDVVPVRELCGLERPLRRSTRS
WKLTGELSCRGT EPRPPPARCSRRAGTRRRTRLQASPSSSVSRSPWTGLKRNSSSCRRSITALNWNEHQQVAQA
VERAKQVTMAELNAIIGQQQLQAQHLSYGHGPPVPLTPHP SGLQPPGIPPLGGSAGLLALSSALSGQSHLAIKDD
KKHQDAEHHRDERPGKPD

6729/6881
FIGURE 6214A

CTGATCTCGGGGATTTCGGGTGCGGAGCCCTTGGCCTGGAGGCGATATGGGTGGTCCGTGGCCCCGGTTCAGTCGCT
TGCAGCAGCCCCGGGGAACAGGCCTGTCTGGCCCTGAGGGAGTCCCCCTTCTGAAGCTGTGGTGCTTGGACGACCT
GCTCTCTACATTGCTGGGCACCTGTAGGTGTCCCTCGAGAGCTCAGTTTTGAGGTTCAAGTCAGTGTGGCCATGA
AGGGGCTGCCTATTGGGCTGATGCTGTGACCCTGGAGTCTGCCTCTCCTGCCAGTCCCCCTGCCGGAACATGTG
GCTGCGGCTTGGCCCGCCCTCGCTGTCCCTGAGCCCCAAGCCACGGTTGGCAGGAGCCTGTGCCTCACCCTGTG
GTTCTCAGTTTGGCGCTGAGGGCCAGTACCCAGGCCCCAGCACCCACAGTCAACACTCACTTTGGGAAGCTAAG
GGGTGCCCGAGTACCACTGCCAGTGAGATCCTGGGGCCTGTGGACCAATACCTGGGGGTGCCCTACGCAGCTCC
CCCGATCGGCGAGAAACGTTTCTGCCCCCTGAACCACCCCCATCCTGGTCGGGCATCCGGAACGCCACACACTT
TCCCCCAGTGTGCCCCCAGAATCCACACAGCTGTGCCGAAGTCATGCTGCCGGTCTGGTTCAGTGCCAACTT
GGATATCGTCGCTACTTACATCCAGGAGCCCAACGAAGACTGTCTCTACCTGAACGTCTATGTGCCGACGGAGGA
TGGATCCGGCGCTAAGAAACAGGGCGAGGACTTAGCGGATAATGACGGGGATGAAGATGAAGACATCCGGGACAG
TGGTGCTAAACCCGTATGGTCTACATCCACGGAGGCTCTTACATGGAAGGGACAGGCAACATGATTGATGGCAG
CATCCCCGCCAGTTATGGCAATGTATAGTCATCACCCTCAACTATCGGGTTGGAGTGCTAGGTTTCTGAGTAC
TGGAGATCAGGCTGCCAAGGGCAACTATGGGCTCCTTGACCAGATCCAGGCCCTCCGCTGGGTGAGCGAGAATAT
TGCCTTCTTCGGGGGAGACCCCCGCGGATCACTGTCTTTGGCTCGGGCATTGGTGCATCCTGCGTCAGCCTCCT
CACGTTGTACATCACTCAGAGGGACTTTTCCAGAGAGCCATCATCCAAAGTGGCTCTGCTCTGTCCAGCTGGGC
TGTGAACCTACCAACCAGTGAAGTACACCAGCCTGCTGGCAGACAAAGTGGGCTGTAATGTGCTGGACACCGTGGA
TATGGTGGACTGTCTTCGGCAAAGAGTGCCAAGGAGCTGGTAGAGCAGGACATCCAGCCAGCCCGCTACCAGT
GGCCTTGGCCCTGTGATTGATGGTGATGTCTTCTGATGACCCTGAGATCCTCATGGAGCAGGGCGAGTTCTCT
CAACTATGACATCATGCTAGGTGTCAACCAGGGCGAGGGTCTCAAGTTTGTGGAAGGGGTGGTGGACCCTGAGGA
TGGTGTCTCTGGCACTGACTTTGACTATTCCGTCTCCAATTTTGTGGACAATCTGTATGGCTATCTGAGGGTAA
GGACACCCTGCGAGAGACCATCAAGTTTATGTATACAGACTGGGCAGACCCTGACACCCCTGAGACCCGCCGTAA
AACACTGGTGGCACTCTTCACTGACCACCAGTGGGTGGAGCCCTCAGTGGTGACAGCCGATCTGCATGCCCGCTA
CGGCTCGCCTACCTACTTCTACGCCTTCTATCATCACTGCCAGAGCCTCATGAAGCCTGCTTGGTCAGATGCAGC
TCATGGGGATGAAGTACCCTATGTTTTTGGGGTCTCTATGGTAGGCCCCACTGACCTTTTCCCTGCAACTTCTC
CAAGAATGATGTTATGCTCAGTGCTGTCTCATGACCTATTGGACCAACTTTGCCAAGACTGGGGATCCCAACAA
GCCGGTCCCCCAGGACACCAAGTTTCACTACACCAAGGCCAACCGCTTTGAGGAAGTGGCCTGGTCCAAATACAA
TCCCCGAGACCAGCTCTACCTTACATCGGGCTGAAACCAAGGGTCCGAGATCATTACCGGGCCACTAAGGTGGC
CTTTTGGAAACATCTGGTGCCCCACCTATAACAACCTGCATGACATGTTCCACTATACGTCCACCACCACCAAGT
GCCGCCTCCGGATACCAACCACAGCTCCACATCACC CGCAGGCCAATGGCAAGACCTGGAGCACCAAGCGGCC
AGCCATCTACCTGCCTACAGCAACGAGAATGCCAGGGTCTTGAACGGGGACCAGGATGCAGGGGCCACTCCT
GGTGGAGAACCCTCGTGACTACTCCACTGAATTAAGTGTACCATCGCCGTGGGGGCTCCCTCCTGTTCCTTAA
CGTTCTGGCCTTTCGCTGCCCTCTACTACCGTAAGGACAAACGGCGCCAGGAGCCCCCTGCGGCAGCCTAGCCCTCA
GCGGGGAGCCGGGGCCCCGGAGTTGGGAGCTGCTCCAGAGGAGGAGCTGGCAGCATTACAACCTGGGCCCCACCCA
CCACGAGTGTGAGGCCGGTCCCCCCCCATGACACGCTGCGCCTCACTGCATTGCCCGACTACACCCTGACCCTGCG
GCGCTCCCCGGATGACATCCCACTCATGACCCCAACACCATCACTATGATCCCCAACTCCCTGGTAGGGCTGCA
GACATTGCACCCCTATAACACCTTTGCCGAGGGTTCAACAGTACCGGGCTGCCCCACTCACACTCCACTACCCG
GGTATAGCTCCAACCTCAGAGCACAGCCAATCTCCAGGCTCCCTCCCTCCAGATCCAGGAACACATGCACACACA
CACACACACACGCAGACACACACACACACATATGTATACGCACGCACCCACACCCCTACAGCAGATCC
ACCTGCACAAACATAGACAGATGTGGACATGCACCCGCTGTACAAAAACACAAATACGGAAGTAAACCTGAACA
AACCCTTTAAATGGGGACGCAGATGAGTCTCGGTAAACCGAGGACCCATGAAACAGCAGCTGAAGCCAGCTCCC
TGAATCTGACCACAGACACTCCTGGGGGGCTGAAAGCAACAGCTGGACACCCCTTGGTGCTCGCCTTCGGCCT
CTCTTGAACCTGCACCACCGACCAACTCCAGACTTGGGAGCTTTAAAGAGCAGGATAGCTCTTCTCCTCCCCAGGAC
TTGGTCTTTTTTCTGGGTCTTGTGTTGATTTTTCTTTTTTAATTTTGAACAAATGCTTTTCCAACCCATGA
GTGCTAAGAGCCTCTGGAAGGGAGGGCTTCAGGCCCCAAGGTCTCTCTGGCTCTAGGACCCCCAGTGCTCACACA
ATCAGACCAAGGAACAAGACCCCCAGGAAGGAAAACAGATTTAAGCAAGACCATGGGGTGAAGGAGAAAGGGCT
AGCACTGGATGGAGCTGGAGGGTCGTAGGGGAGAGATCTCAACTCTCTCTGTGTCCGTGTGGAGGGCTGCAGAG
CCTGCAGGGTGACCTGCTTCCCCAAAGGCCAACAGCATTGGCCTGGCCAGACCAGGTGACCTTAGATTTGGTGAA

6730/6881
FIGURE 6214B

CAACGTACTATGGAAGCCACATCACTATTGGGCCCCCAGGTCTGATCTGGGTTTTGCCTCTGCCCTTGGGGAAAT
GCTATCAGAAATTCGCCCCATTTTCTTTACAGTCTTTTGTGTCTGTCATTTCCTTTCAAAAAGGCGGTGTTTTT
TGTTGTTGTTGGTTTTTTTTTTTTTTTTTAAAGAAAAGTTCTTAAACACTAACGAAAAAAAAAAAA

6731/6881
FIGURE 6215

MWLR LGPPSLSLSPKPTVGRSLCLTLWFLSLALRASTQAPAPT VNT HFGKL R GARVPLPSEILGPVDQYLGVPYA
APP IGEKRFLPPEPPPSWSGIRNATHFPPVCPQNIHTAVPEVMLPVWFTANLDIVATYIQEPNEDCLYLN VYVPT
EDGSGAKKQGEDLADNDGDEDEDIRDSGAKPVMVYIHGGSYMEGTGNMIDGSIPASYGNVIVITLNYRVGVLGFL
STGDQAAKGNYGLLDQIQALRWVSENIAFFGGDPRRITVFGSGIGASCVSLLTTLSSHSEGLFQRAIIQSGSALSS
WAVNYQPVKYTSLLADKVGCVNLDTVDMVDCLRQKSAKELVEQDIQPARYHVAFGPVIDGDVIPDDPEILMEQGE
FLNYDIMLGVNQGEGLKFVEGVVDPEDGVSGTDFDYSVSNFVDNLYGYPEGKDTLRETIKFMYT DWADRDNPETR
RKT LVALFTDHQWVEPSVVTADLHARYGSPTYFYAFYHHCQSLMKPAWSDAAHGDEVYVFGVPMVGPTDLFPCN
FSKNDVMLS AVVM TYWTNFAKTGDPNKPVPQDTKF IHTKANRFEEVAWSKYNPRDQLYLHIGLKPRVRDHYRATK
VAFWKHLVPHLYNLHDMFHYTSTTTKVPPDTHSSHITRRPNGKTWSTKRPAISPAYS NENAQGSWNGDQDAGP
LLVENPRDYSTE LSVTI AVGASLLFLNVLAFAALYRKDKRRQEPLRQPS PQRGAGAP ELGAAP EEE LAALQLGP
THHECEAGPPHDTLRLTALPDYTLTLRRSPDDIPLMTPNTITMIPNSLVGLQTLHPYNTFAAGFNSTGLPHSHST
TRV

6732/6881
FIGURE 6216

CTCTGGGAAAGGGCAGCAGCAGCCAGGTGTGGCAGTGACAGGGAGGTGTGAATGAGGCAGGATGAAGTGGACAGG
TTTGTACACCTTGCTCAGTGGCGTGAACCGGCATTCTACTGCCATTGGCCGAGTATGGCTCTCGGTTCATCTTCAT
CTTCAGAATCATGGTGCTGGTGGTGGCTGCAGAGAGTGTGTGGGGTGATGAGAAATCTTCCTTCATCTGCAACAC
ACTCCAGCCTGGCTGCAACAGCGTTTGCTATGACCAATTCTTCCCCATCTCCCATGTGCGGCTGTGGTCCCTGCA
GCTCATCCTAGTTTCCACCCCAGCTCTCCTCGTGGCCATGCACGTGGCTCACCAGCAACACATAGAGAAGAAAAT
GCTACGGCTTGAGGGCCATGGGGACCCCCTACACCTGGAGGAGGTGAAGAGGCACAAGGTCCACATCTCAGGGAC
ACTGTGGTGGACCTATGTTCATCAGCGTGGTGTTCGGCTGTTGTTTGAGGCCGTCTTCATGTATGTCTTTTATCT
GCTCTACCTTGCTATGCCATGGTGCGGCTGGTCAAGTGCGACGTCTACCCCTGCCCAACACAGTGGACTGCTT
CGTGTCCCGCCCCACCGAGAAAACCGTCTTCACCGTCTTCATGCTAGCTGCCTCTGGCATCTGCATCATCCTCAA
TGTGGCCGAGGTGGTGTACCTCATCATCCGGGCCTGTGCCCGCCGAGCCCAGCGCCGCTCCAATCCACCTTCCCG
CAAGGGCTCGGGCTTCGGCCACCGCCTCTCACCTGAATACAAGCAGAATGAGATCAACAAGCTGCTGAGTGAGCA
GGATGGCTCCCTGAAAGACATACTGCGCCGAGCCCTGGCACCGGGCTGGGCTGGCTGAAAAGAGCGACCGCTG
CTCGGCCTGCTGATGCCACATAACCAGGCAACCTCCCATCCCACCCCGACCTGCCCTGGGCGAGCCCTCCTTC
TCCCCTGCCGGTGCACAGGCCTCTGCCTGCTGGGGATTACTCGATCAAAACCTTCCTTCCCTGGCTACTTCCCTT
CCTCCCGGGCCTTCCTTTTGAGGAGCTGGAGGGGTGGGGAGCTAGAGGCCACCTATGCCAGTGCTCAAGGTTAC
TGGGAGTGTGGGCTGCCCTTGTTCCTGCCTGCACCCTTCCCTCTTCCCTCTCCTCTCTGGGACCACTGGGTACAA
GAGATGGGATGCTCCGACAGCGTCTCCAATTATGAACTAATCTTAACCCTGTGCTGTCAGATACCCTGTTTCTG
GAGTCACATCAGTGAGGAGGGATGTGGGTAAGAGGAGCAGAGGGCAGGGGTGCTGTGGACATGTGGGTGGAGAAG
GGAGGGTGGCCAGCACTAGTAAAGGAGGAATAGTGCTTGCTGGCCACAAGGAAAAGGAGGAGGTGTCTGGGGTGA
GGGAGTTAGGGAGAGAGAAGCAGGCAGATAAGTTGGAGCAGGGGTGGTCAAGGCCACCTCTGCCTCTAGTCCCC
AAGGCCTCTCTCTGCCTGAAATGTTACACATTAAACAGGATTTTACAGT

6733/6881

FIGURE 6217

MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVVAESVWGDEKSSFICNTLQPGCNSVCYDQFFPI SHVR
LWSLQLIILVSTPALLVAMHVAHQOHIEKKMLRLEGHGDPLHLEEVKRHKVHISGTLWWTYVISVVFRLLEAVFM
YVFYLLYPGYAMVRLVKCDVYPCPNTVDCFVSRPTEKTVFTVFMLAASGICII LNVAEVVYLIIRACARRAQRRS
NPPSRKGSFGHRLSPEYKQNEINKLLSEQDGS LKDILRRSPGTGAGLAEKSDRCSAC

6734/6881
FIGURE 6218

GTGTGAATGAGGCAGGATGAACTGGACAGGTTTGTACACCTTGCTCAGTGGCGTGAACCGGCATTCTACTGCCAT
TGGCCGAGTATGGCTCTCGGTCATCTTCATCTTCAGAATCATGGTGCTGGTGGTGGCTGCAGAGAGTGTGTGGGG
TGATGAGAAATCTTCCTTCATCTGCAACACACTCCAGCCTGGCTGCAACAGCGTTTGCTATGACCAATTCTTCCC
CATCTCCCATGTGCGGCTGTGGTCCCTGCAGCTCATCCTAGTTTCCACCCCAGCTCTCCTCGTGGCCATGCACGT
GGCTCACCAGCAACACATAGAGAAGAAAATGCCAAGGCCTCTCTCTGCCTTGAAATGTTACACATTAAACAGGATT
TTACAGTAAATGAAGAGGTGGCTTGTGTGTTTGTCAAGTTCTTTCTCCTGCAACCTCTGACCTCCCCCAGGATGA
GCTGGCCTTGTTTTTTTTACTGATTAAAGAAAGGAACAGGGCAAAAGAAGTAGTTACTTGAGTAGCTGAAGCTGCAA
ATGAGGAAATCACTGTACTTCTGGGCCGCAGAGCCAGCCCCGGAGCCATTCTCCCTGTTGCTTTTGTGTTGTG
GTTCTTGTCTTTTTTATTGTCTAATAACAGCTTTATTGGGATTTAGTTTACATACCTCCTTCCTCTGATTTTGAA
AAGATTAAAAATGACAACTCCCTCTG

6735/6881
FIGURE 6219

MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVAAESVWGDEKSSFICNTLQPGCNSVCYDQFFPISHVR
LWSLQLILVSTPALLVAMHVAHQHIEKKMPRPLSA

6736/6881
FIGURE 6220

TAATTCTAAATGGTGGTAGGAGGAGAACAGGCATTGCTTTACAGCCCCCTGGGGGCCTACCTCAGTTTGCTATAG
ATAGCAGTCTTTTTTTTTTTGGAGACAGAGTTTCCCTCTTGTTGCCCAGGCTAGAGTGCAATGGCATGGTCTTGG
CTCACTGCAACCTCCACCTCCCGGGTTCAAGCGAGTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTG
CTTGCCACCATGCCCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTACACCATGTTGGCCAGGCTGGTCTCG
AACTCCTGACCTCAGGTGATCCACCAGCCTCGGCCTCCCAATTTTGATTTTTATTAGAGACTGAGTTTGACCAC
GTTGGTCAGGCTGTTCTTGAACCTCTGACCTCAGATAATCTGCCCGCCTCGGTTTCCCAAAGTGCTGGGATTACT
GGCGTGAGCCACCAAGCCCGGCCAGATAGCAATCTTTAGGACTGCTGGTATCCATTAAATGTAACCTCAAGGTC
TTTATTTTTGAATCTTGAGCAAACCTCAGTCTCTATACTTAATCTAGGAGTTAAGTAAATGCCACCGTCTGACTGG
CCAGTCTGATTGACTATGTTTGTGGAGGGAAGTCAATGAAGGCTAGGCATTATCACATAAAATAGTTGTGAATC
CAAATACTTCATGGCTCATGCAATCCTGGGGTTGTTTTGGTTATGGTGTTAAATGCCAAAACCTGGATAGTTTGG
TTGTTTCTGTTTTTGTCTTTTTCTTTTTCTTTTTCTTTTTGAGACAGAGTTTTGCTCTTGTCGCCCAGGCTGGAG
TGCAGTGGTGCAATCTTGGCTCCCTGCAACCTCCGCCTCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGA
GTAGCTGGGATTACAGGCATGCGCCACCCTTTTTGGGGTTATCCACTAGAGTTCTAAACAGACTTAGTCACCCAC
TCCTACCTACCATCAGGAGCCTTGAATAGTTGAATGGAAATAGCCTCCAGTGGAGGGACTACAGATGGGTGGGAA
GCTTCCAACAATGGCTCTGTTACAGTGTGCTCTCTTTTTCTCTTTAAGACCCCAACAACCTGAACGCTTTGG
TCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGTGGAACCTCCTCCTGCATTCAACCGTGCAGCTCCTGGAGC
TGAATTTGCCCCAAACAAACGTCGCCGATACTAATAAGTTGCAGTGTCTAGTTTCTCAAAACCCTTAAAAGAAGG
ACCCTTTTTGGACTAGCCAGAATTCACCTGGAAAAGTGTTAGGGATTCCCTTCCAATAGTTAGATCTACCCTGC
CTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGGCAAGGGAGGGGTGGTATTAAACAAGTCAATTCTGTGTGG
TATATTGTTTAATCAGTTCTGTGTGGTGCATTCTGAAGTCTCTAATGTGACTGTTGAGGGCCTGGGGAAACCAT
GGCAAAGTGGATCCAGTTAGAGCCCATTAATCTTGATCATTCCGGTTTTTTTTTTTTTTTGTCCATCTGTTTCAT
TTGCTTGCCCCGCCCCGAGACGGAGTCTTACTCTGTGCCCCAGGCTGGAGTGTAGTGGCATGATCTCGGCTCAC
TGCAATCTCTGCCTCCCGGGTTCAAGCTTGTCAGGTTGATCTTGAACCTCTGACCTCGTGATCTACCCACCTCG
GCCTCCCAAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCTCACTTGCTTCTTATCCTTACACTCCCC
CAGCCCCAGAGAACTGCCACATACACCACAAAACCAAACATCCCCCAATGACCTTAGCCCCATTGCTCCATT
ACTCCCAGGTGAGAATTCAGGCAAACGTCCACAAAGGTACAGGCAGCGTACATACGGTTCTGTTATACCCATA
TATTACCCCTTCATGTCCTAAAGAAGACATTTTCTCTTAGAGATTTTCATTTTAGTGATCTTTAAAAAAAATC
TTGTGTTAACTTGCTCCATCTTTTTCTTGGGTGAGGACACCCAGGAATGACCCTTTTGTGTCTATGATGTTGCT
GTTACAGCTTTTCTTGATAGGCCTAGTACAATCTTGGGAACAGGGTTACTGTATACTGAAGGTCTGACAGTAGC
TCTTAGACTCGCCTATCTTAGGTAGTCATGCTGTGCATTTTTTTTTTTTCAATTGGTGTACTGTGTTGATTTGTCTC
ATATATTTGGAGTTTTTCTGAAAAATGGAGCAGTAATGCAGCATCAACCTATTAAAATACATTTTAAGCCTTTT

6737/6881
FIGURE 6221

MQSNKTFNLEKQNHTPRKHHQH HHQOQH HQOQOQOQPPPPPI PANGQQASSQNEGLTIDLKNFRKPGEKTFTQRSR
LFVGNLPPDITEEEMRKLFEKYGKAGEVFIHKDKGFGFIRLETRTLAEIAKVELDNMPLRGKQLRVRFACHSASL
TVRNLPQYVSNELLEEAFSVFGQVERAVVIVDDRGRPSGKGIVEFSGKPAARKALDRCSEGSFLLTTFFRPVTV
PMDQLDDEEGLPEKLVIKNQFHKEREQPPRFAQPGSFYEYAMRWKALIEMEKQQQDQVDRNIKEAREKLEMEM
EAARHEHQVMLMRQDLMRQEEELRRMEELHNQEVQKRKQLELRQEEERRRREEEMRRQEEEMRRQEEGFKGTFF
DAVYLP CARDVPDQS

6738/6881
FIGURE 6222

GCCAGATCTGGAAGGTGGCTGCGGAACGGTTTTTAAGCGGAAGATGAGGAGCCGGAGGAACCGGCGGACAGTGGG
CAGTCGCTGGTCCCGGTTTATATCTATAGTCCCGAGTATGTCAGTATGTGTGACTCCCTGGCCAAGATCCCCAA
CGGGCCAGTATGGTGCATTCTTTGATTGAAGCATATGCACTGCATAAGCAGATGAGGATAGTTAAGCCTAAAGTG
GCCTCCATGGAGGAGATGGCCACCTTCCACACTGATGCTTATCTGCAGCATCTCCAGAAGGTCAGCCAAGAGGGC
GATGATGATCATCCGGACTCCATAGAATATGGGCTAGGTTATGACTGCCAGCCACTGAAGGGATATTTGACTAT
GCAGCAGCTATAGGAGGGGCTACGATCACAGCTGCCAATGCCTGATTGACGGAATGTGCAAAGTAGCAATTAAC
TGGTCTGGAGGGTGGCATCATGCAAAGAAAGATGAAGCATCTGGTTTTTGTATCTCAATGATGCTGTCCTGGGA
ATATTACGATTGCGACGGAAATTTGAGCGTATTCTCTACGTGGATTTGGATCTGCACCATGGAGATGGTGTAGAA
GACGCATTCACTTTACCTCCAAAGTCATGACCGTGTCCCTGCACAAATTCTCCCCAGGATTTTCCCAGGAACA
GGTGACGTGTCTGATGTTGGCCTAGGGAAGGGACGGTACTACAGTGTAATGTGCCCATTCAGGATGGCATACAA
GATGAAAAATATTACCAGATCTGTGAAAGTGTACTAAAGGAAGTATACCAAGCCTTTAATCCCAAAGCAGTGGTC
TTACAGCTGGGAGCTGACACAATAGCTGGGGATCCCATGTGCTCCTTTAACATGACTCCAGTGGGAATTGGCAAG
TGTCTTAAGTACATCCTTCAATGGCAGTTGGCAACACTCATTTTTGGGAGGAGGAGGCTATAACCTTGCCAACACG
GCTCGATGCTGGACATACTTGACCGGGGTCATCCTAGGGAAAACACTATCCTCTGAGATCCCAGATCATGAGTTT
TTCACAGCATATGGTCCTGATTATGTGCTGGAAATCACGCCAAGCTGCCGGCCAGACCGCAATGAGCCCCACCGA
ATCCAACAAATCCTCAACTACATCAAAGGGAATCTGAAGCATGTGGTCTAGTTGACAGAAAGAGATCAGGTTTCC
AGAGCTGAGGAGTGGTGCCTATAATGAAGACAGCGTGTTTATGCAAGCAGTTTGTGGAATTTGTGACTGCAGGGA
AAATTTGAAAGAAATTACTTCCTGAAAATTTCCAAGGGGCATCAAGTGGCAGCTGGCTTCCTGGGGTGAAGAGGC
AGGCACCCAGAGTCCTCAACTGGACCTAGGGGAAGAAGGAGATATCCACATTTAAAGTTCTTATTTAAAAAAA
CACACACACACAAATGAAATTTTTAATCTTTGAAAATTATTTTTAAGCGAATTGGGGAGGGGAGTATTTAATCA
TCTTAAATGAAACAGATCAGAAGCTGGATGAGAGCAGTCACCAGTTGTAGGGCAGGAGGCAGCTGAGAGGCAGG
GTTTGGGCCTCAGGACCATCCAGGTGGAGCCCTGGGAGAGAGGGTACTGATCAGCAGACTGGGAGGTGGGGAGAA
GTCCGCTGGTGTGTTTTAGTGTTATATATCTTTGGTTTTTTTTAATAAAATCTTTGAAAACCTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

6739/6881
FIGURE 6223

MEEPEEPADSGQSLVPVYIYSPEYVSMCDLAKIPKRASMVHSLIEAYALHKQMRIVKPKVASMEEMATFHTDAY
LQHLQKVSQEGDDDDHPDSIEYGLGYDCPATEGIFDYAAAIGGATITAAQCLIDGMCKVAINWSGGWHHAKKDEAS
GFCYLNDVAVLGILRLRRKFERILYVDLDLHHGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGRYY
SVNVPIQDGIQDEKYYQICESVLKEVYQAFNPKAVVLQLGADTIAGDPMCSFNMTVPVGIGKCLKYILQWQLATLI
LGGGGYNLANTARCWTYLTGVILGKTLSEIPDHEFFTAYGPDYVLEITPSCRPDREPHRIQQILNYIKGNLKH
VV

6740/6881
FIGURE 6224

AAGACGGAGGTCCTCTTTCCTTGCCTAACGCAGCCATGGCTCGTGGTCCCAAGAAGCATCTGAAGCGGGTGGCAG
CTCCAAAGCATTGGATGCTGGATAAATTGACCGGTGTGTTTGCTCCTCGTCCATCCACCGGTCCCCACAAGTTGA
GAGAGTGTCTCCCCCTCATCATTTTCTGAGGAACAGACTTAAGTATGCCCTGACAGGAGATGAAGTAAAGAAGA
TTTGATGCAGCGGTTCAATTAATCGATGGCAAGGTCCGAACTGATATAACCTACCCTGCTGGATTTCATGGATG
TCATCAGCATTGACAAGACGGGAGAGAATTTCCGTCTGATCTATGACACCAAGGGTCGCTTTGCTGTACATCGTA
TTACACCTGAGGAGGCCAAGTACAAGTTGTGCAAAGTGAGAAAGATCTTTGTGGGCACAAAAGGAATCCCTCATC
TGGTGACTCATGATGCCCGCACCATCCGCTACCCCGATCCCCTCATCAAGGTGAATGATACCATTTCAGATTGATT
TGGAGACTGGCAAGATTACTGATTTTCATCAAGTTTCGACACTGGTAACCTGTGTATGGTGACTGGAGGTGCTAACC
TAGGAAGAATTGGTGTGATCACCACAGAGAGAGGCACCCTGGATCTTTTGACGTGGTTCACGTGAAAGATGCCA
ATGGCAACAGCTTTGCCACTCGACTTTCCAACATTTTTGTTATTGGCAAGGGCAACAAACCATGGATTTCTCTTC
CCCGAGGAAAGGGTATCCGCCTCACCATTGCTGAAGAGAGAGACAAAAGACTGGCGGCCAAACAGAGCAGTGGGT
GAAATGGGTCCCTGGGTGACATGTCAGATCTTTGTACGTAATTAATAATATTGTGGCAGGATTAATAGCAAAAAA
AAAAAAAAAAAAAAAAA

6741/6881
FIGURE 6225

MARGPKKHLKRVAAPKHWMLDKLTGVFAPRPSTGPHKLRECLPLIIFLRNRLKYALTGDEVKKICMQRFIKIDGK
VRTDITYPAGFMDVISIDKTGENFRLIYDTKGRFAVHRITPEEAKYKLCKVRKIFVGTKGIPHLVTHDARTIRYP
DPLIKVNDTIQIDLETGKITDFIKFDTGNLCMVTGGANLGRIGVITNRERHPGSFDVVHVKDANGNSFATRLSNI
FVIGKGNKPWISLPRGKGIRLTIAEERDKRLAAKQSSG

6742/6881
FIGURE 6226

ATGGGTCCACGTCTTGCAGCTACAGCTGCTGCAGCTACTCCTGCTGTCCGCACCGTTCCACAGTATAAATATGCT
GCGGGAGTTTGCAATCCTCAGCAACATCTTAATGCACAGCCACAAGTTACAGTGCAACAGCCTGCTATTCATGTA
CAAGGTCAGGAACCTTTGACTGTTTCCATGTTGGCATCTGCCCCCTCAAGAGCAAAAGCAAATGTTGGGTGAATGG
CTGTTTCCTCTTATTCAAGCCATGCACCCTACTCTTGCCGGTAAAATCACTGGCGTGTTGTTGGAGATTGATAAT
TCAGAACTTCTTCATATGCTCAAGTCTCCAGAGTCACTCCATTCTAAGGTTGATGAAGCTGTAGCTGTACTACAA
GCCCACCAAGCTAAAGAGACTGCCCAGAAAGCAGTTAACAGTGCCACCGGTGTTCCAACCTGTTTAA

6743/6881

FIGURE 6227

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCAATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTCCCTTGGCCACGTATATGCAAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA
ATGTTACCCAGCATACTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGCATGAATGAAAATGATCAGAGAA
AGAAATAAGCCAAAGAGAAAAGGTACCTGTGTTCAACTAAAGTGCCAGCCTGCTCCACCCAGAGAAGCACACTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCTCTATGAATTTATGGCATAATAGGTGTTAAAAA
ATAAATAAAAGACATCTGGGCTGT

6744/6881
FIGURE 6228

ATGAGATCTGGTTGTTCCCTGGGTATCACCAATGATGTTACCCAGTCCATGGAGATTAGTTCCACCTTCTGGGTG
TTGGGAGTAGTTCCAGCACTTTCCAGAGCCTTCTCTCTCCTGTGCAAAATAGCAACTCTTAAGGAAAACTCATT
GTACCAGTTGCGGAAGAAGAGGCAACAGTCCAAAACAATAAGATCACTGTAGTGAGTGTTGGACAAGTTGGTATG
GCGTGTGCTATCAGCATTCTGGGAAAATCTCTGGCTGATGAATTTGCTTTTGTGGATGTTTTGGAAGATAAGCTT
AAAGGAGAAATGATGGATCTGCAGCATGGGAGCTTATTTCTCAAGAAGCTTAAAATTGTGGCAGATAAAGATTAT
TCTGTGACTGCCAGTTATAAGATTGTAGTGGTAACTTCAGGAGTCCTTCAGCAAGAGGGGGAGAGGCGGGACATT
CTTACGTATGTTACCTGGAAAATAAGTGGATTACTCAAACACCATGTGATTGGAAGTGGATGTAATCCGGATTCT
GCTAGATTTCACTGCCTTATGGATGAAAAATTTGGCATTTCATCCAGCAGCTGCCATGGAAGGATTTTGGGGGAA
CATAGTGACTCAAGTGTGGCTGTGTGGATTGGCATGAATGTGACAGGTTTTCTCTCCAGGAATTGAATCCAGAA
ATAGGAACTGACAATGATAGTGAATAATTGGAAAGAAGTGCATAAGATGGTGGTTGAAAATGCCTATGAAGTCAAC
AAGCTAAATGGATATACCCACTGGGATATTGGATTAAGTGTGGCTGATCTCATTGAATCCATGTTGAAAAATCTA
TCCAGGATTCATCTCGTGTCAACAATGGTAAAGGGGATGTATGGCATCGAGAATGAAGTCTTCCTGAGCCTTCCA
TATATCCTCAATGCCCGGGGATTAACCAGCGTTATCAACCAGAAGCTAAAGGATGATGAGGTTGCTCAGTTCAAG
AAAAGTACAGATACCCCGTGGGACATCCAGAAGGACCTAAAAGACCTGTGA

6745/6881
FIGURE 6229

ACTTATAGAAGGGAGAGGAGCGAACATGGCAGCGCGTTGGCGGTTTTGGTGTGTCTCTGTGACCATGGTGGTGGC
GCTGCTCATCGTTTTGCGACGTTCCCTCAGCCTCTGCCCCAAAGAAAGAAGGAGATGGTGTTATCTGAAAAGGTTAG
TCAGCTGATGGAATGGACTAACAAAAGACCTGTAATAAGAATGAATGGAGACAAGTTCCGTCGCTTGTGAAAGC
CCCACCGAGAAATTACTCCGTTATCGTCATGTTCACTGCTCTCCAAGTGCATAGACAGTGTGTCGTTTGCAAGCA
AGCTGATGAAGAATTCCAGATCCTGGCAAACCTCTGGCGATACTCCAGTGCATTACCAACAGGATATTTTTTGC
CATGGTGGATTTTGATGAAGGCTCTGATGTATTTTCAGATGCTAAACATGAATTCAGCTCCAAGTTTCATCAACTT
TCCTGCAAAAGGGAAACCCAAACGGGGTGATACATATGAGTTACAGGTGCGGGGTTTTTCAGCTGAGCAGATTGC
CCGGTGGATCGCCGACAGAACTGATGTCAATATTAGAGTGATTAGACCCCCAAATTATGCTGGTCCCCTTATGTT
GGGATTGCTTTTGGCTGTTATTGGTGGACTTGTGTATCTTCGAAGAAGTAATATGGAATTTCTCTTTAATAAAAC
TGGATGGGCTTTTGCAGCTTTGTGTTTTGTGCTTGCTATGACATCTGGTCAAATGTGGAACCATATAAGAGGACC
ACCATATGCCCATAGAATCCCCACACGGGACATGTGAATTATATCCATGGAAGCAGTCAAGCCCAGTTTGTAGC
TGAAACACACATTGTTCTTCTGTTTAAATGGTGGAGTTACCTTAGGAATGGTGCTTTTATGTGAAGCTGCTACCTC
TGACATGGATATTGGAAGCGAAAGATAATGTGTGTGGCTGGTATTGGACTTGTGTATTATTCTTCAGTTGGAT
GCTCTCTATTTTTAGATCTAAATATCATGGCTACCCATACAGCTTTCTGATGAGTTAAAAAGGTTCCAGAGATAT
ATAGACACTGGAGTACTGGAAATTGAAAAACGAAAATCGTGTGTGTTTGAAGAAGAATGCAACTTGTATATTT
TGTATTACCTCTTTTTTTCAAGTGATTTAAATAGTTAATCATTTAACCAGAAAGATGTGTAGTGCCTTAACAAG
CAATCCTCTGTCAAAATCTGAGGTATTTGAAAATAATTATCCTCTTAACCTTCTCTTCCAGTGAAGTTTATGGA
ACATTTAATTTAGTACAATTAAGTATATTATAAAAAATTGTAAACTACTACTTTGTTTTAGTTAGAACAAAGCTC
AAAACACTTTTAGTTAACTTGGTCATCTGATTTTATATTGCCTTATCCAAAGATGGGGAAAGTAAGTCCTGACCA
GGTGTTCACCATATGCCTGTTACAGATAACTACATTAGGAATTCATTCTTAGCTTCTTCATCTTTGTGTGGATG
TGTATACTTTACGCATCTTTCCTTTTGGAGTAGAGAAATTATGTGTGTCATGTGGTCTTCTGAAAATGGAACACCA
TTCTTCAGAGCACACGTCTAGCCCTCAGCAAGACAGTTGTTTCTCCTCCTCCTTGCATATTTCTACTGCGCTCC
AGCCTGAGTGATAGAGTGAGACTCTGTCTCAAAAAAAGTATCTCTAAATACAGGATTATAATTTCTGCTTGAGT
ATGGTGTTAACTACCTTGTATTTAGAAAGATTTTCAGATTCAATCCATCTCCTTAGTTTTCTTTAAGGTGACCCA
TCTGTGATAAAAAATATAGCTTAGTGCTAAAATCAGTGTAACCTTATACATGGCCTAAAATGTTTCTACAAATTAGA
GTTTGTCACTTATTCCATTTGTACCTAAGAGAAAAATAGGCTCAGTTAGAAAAGGACTCCCTGGCCAGGCGCAGT
GACTTACGCCTGTAATCTCAGCACTTTGGGAGGCCAAGGCAGGCAGATCACGAGGTGAGGAGTTCAGACCATCC
TGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATATAAAAAATTAGCTGGGTGTGGTGGCAGGAGCCTGTAATC
CCAGCTACACAGGAGGCTGAGGCACGAGAATCACTTGAAGTCAAGGAGATGGAGGTTTCAGTGAGCCAAGATCACA
CCACTGCACTCCAGCCTGGCAACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAA

6746/6881
FIGURE 6230

AAGCCTCCGGAGCGCACGTCGGCAGTCGGCTCCCTCGTTGACCGAATCACCGACCTCTCTCCCCAGCTGTATTTTC
CAAAATGTCGCTTTTCTAACAAGCTGACGCTGGACAAGCTGGACGTTAAAGGGAAGCGGGTCGTTATGAGAGTCGA
CTTCAATGTTCTATGAAGAACAACCAGATAACAAACAACCAGAGGATTAAGGCTGCTGTCCCAAGCATCAAATT
CTGCTTGGACAATGGAGCCAAGTCGGTAGTCCTTATGAGCCACCTAGGCCGGCCTGATGGTGTGCCCATGCCTGA
CAAGTACTCCTTAGAGCCAGTTGCTGTAGAACTCAAATCTCTGCTGGGCAAGGATGTTCTGTTCTTGAAGGACTG
TGTAGGCCCCAGAAGTGGAGAAAAGCCTGTGCCAACCCAGCTGCTGGGTCTGTATCCTGCTGGAGAACCTCCGCTT
TCATGTGGAGGAAGAAGGGAAGGGAAAAAGATGCTTCTGGGAACAAGGTTAAAGCCGAGCCAGCCAAAATAGAAGC
TTTCCGAGCTTCACTTTCCAAGCTAGGGGATGTCTATGTCAATGATGCTTTTGGCACTGCTCACAGAGCCCACAG
CTCCATGGTAGGAGTCAATCTGCCACAGAAGGCTGGTGGGTTTTTGATGAAGAAGGAGCTGAACTACTTTGCAAA
GGCCTTGGAGAGCCCAGAGCGACCCCTTCCTGGCCATCCTGGGCGGAGCTAAAGTTGCAGACAAGATCCAGCTCAT
CAATAATATGCTGGACAAAGTCAATGAGATGATTATTGGTGGTGGGAATGGCTTTTACCTTCCTTAAGGTGCTCAA
CAACATGGAGATTGGCACTTCTCTGTTGATGAAGAGGGAGCCAAGATTGTCAAAGACCTAATGTCCAAAGCTGA
GAAGAATGGTGTGAAGATTACCTTGCTGTTGACTTTGTCACTGCTGACAAGTTTGATGAGAATGCCAAGACTGG
CCAAGCCACTGTGGCTTCTGGCATACTGCTGGCTGGATGGGCTTGGACTGTGGTCCTGAAAGCAGCAAGAAGTA
TGCTGAGGCTGTCACTCGGGCTAAGCAGATTGTGTGGAATGGTCCTGTGGGGGTATTTGAATGGGAAGCTTTTGC
CCGGGGAACCAAGCTCTCATGGATGAGGTGGTGAAAGCCACTTCTAGGGGCTGCATCACCATCATAGGTGGTGG
AGACACTGCCACTTGCTGTGCCAAATGGAACACGGAGGATAAAGTCAGCCATGTGAGCACTGGGGGTGGTGCCAG
TTTGGAGCTCCTGGAAGGTAAAGTCCTTCCTGGGGTGGATGCTCTCAGCAATATTTAGTACTTTCCCTGCCTTTTA
GTTCTGTGCACAGCCCCTAAGTCAACTTAGCATTTTCTGCATCTCCACTTGGCATTAGCTAAAACCTTCCATGT
CAAGATTAGCTAGTGGCCAAGAGATGCAGTGCCAGGAACCCTTAAACAGTTGCACAGCATCTCAGCTCATCTTC
ACTGCACCCTGGATTGTCATACATTCTTCAAGATCCCATTTGAATTTTTTAGTGACTAAACCATTGTGCATTCTA
GAGTGATATATTTATATTTTGCCTGTTAAAAAGAAAGTGAGCAGTGTTAGCTTAGTTCTCTTTTGATGTAGGTT
ATTATGATTAGCTTTGTCACTGTTTCACTACTCAGCATGGAACAAGATGAAATTCCATTTGTAGGTAGTGAGAC
AAAATTGATGATCCATTAAGTAAACAATAAAAGTGTCATTG

6747/6881
FIGURE 6231

MSLSNKLTLDKLDVKGRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMShLGRPDGVPM₁PD₂K
YSLEPVAVELKSLLGKDVLF₁FLKDCVGPEVEKACANPAAGSVILLENLRFHV₁EEEG₂K₃GKDASGNKVKAEP₁AKIEAF
RASLSKLGDVYVND₁AFGT₂AHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALESPERPFLAILGGAKVADKIQLIN
NMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAEKNGVKITLPVDFVTADKFDENAKTGQ
ATVASGIPAGWMGLDCGP₁ESSKKYAEAVTRAKQIVWNGPVGVFEWEAFARGTKALMDEVVKATSRGCITIIIGGD
TATCCAkwNTEDKVSHVSTGGGASLELLE₁GKVLP₂GV₃DALSNI

6748/6881
FIGURE 6232

CTCCCTGCCTCCGCGCTGCAGCCCCTGCCGTAGCCGCCCCTGAGCCCGCCACCACCGCCTCTGAGCAGAAGATGG
CTGTGCCACCTACGTATGCTGATCTTGGCAAATCTGCCAGGGATGTCTTCACTGAGGGCTATGGATTTGGCTTAA
TAAAGCTTGATTTGAAAACAAAATATGAGAATGGATTGGAATTTACAAGCTCAAGCTCAGCCAACACAGACCACC
AAAGTGACGGGCAGTCTGGAAACCAAGTACAGATGGACTGAGTACGGCCTCACGTTTACAGAGAAATGGAACACC
GACAATACACTAGGCACCAAGATTACTGTGGAAGATCAGCTTGACGTGGACTGAAGCTGACCTTCGATTTCATCC
TTTTACCTAACACTGGGAAAAAAATGCTAAAATCAAGACAGGGTACAAGCGGGAGCACATTAACTGGGCTGC
GACATGGTTTTTCGACATTGTTGGGCCTTCCATCCGGGGTGCTCTGGTGCTGGGTTACGAGGGCTGGCTGGCCGGC
TATCAGATGAATTTTGAGACTACAAAATCCCAGGTGACCCAGAGCAACTTTGCAATTGGCTACAAGACTGATGAA
TTCCAGCTTCACACAAATGTGAATGACGGGACAGAGTTTGGCGGCTCCATTTACCAGAAAGTGAACAAGAAGTTG
GAGACCACCGTCAATCTTGCCCTGGACAGCAGGAAACAGTAACACGCGCTTCGGAATAGCAGCCAAGTATCAGATT
GACCCTGACGCCTGCTTCTCGGCTAAAGTGAAACAACCTCCAGCCTGATAGGTTTAGGATACACTCAGACTCTAAAG
CCAGGTATCAAACCTGACACTGTCAGCTCTTCTGGATGGCAAGAACGTCAATGCTGGTGGCCACAAGCTTGGTCTA
GGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTTAAATTTTAACTATTTTGCAGCATAGCTACCTTC
AGAATTTAGTGTTATCTTTTAATGTTGTATGTCTGGGATGCAAGTATTGCTAAATATGTTACCCCTCCAGGTAA
AGATGATTCAGCTTTAAGATGTTACCCCTCCAGAGGTACAGAAGAAACGCATTTCCAAAAAGGTTCTTTTCAGTG
GTAGACTCGGGGAGAAGTTGGTGGCCCCCTTTGAGGTGCCAGGTTTCTTTTTCATCTAGAGATGGCTGCGAGTGGA
AGCTGATAATATGTAGGCACCTTTGTAAATTCATATTGAGTAAATGAATGAAATTGTGATTTCTTGAGAATCGAAC
CATGGTTTCTTAACCCTAATTGATGAGAGGCTCGCTGCTTGATGGTGTGTACAAGCTCACCTGAATGGGACTTTT
TTAGACAGATCTTCATGACCTGTTCCACCCCAGTTCATCATCATCTCTTTTACACCAAAGGCTGTCAGGGTGT
GGTCACTCTTTCTTTTGTGCCATTTTGGGGTGGAGAAGGTAGATGTGATGAAACCAATAATTCAGGACTTATTCC
TTCTTGTTGTGTGTTTTTTTTTGGCCCTTGACCAGAGTATGAAATAGCTTCCAGGAGCTCCAGCTATAAGCTTGG
GAGTGTCTGTGTGATTGTAATCACATGGTGACAGCACTCAGAATCTAAATTGGACTTCTGCTGTATTCTCACCAC
TCAATTTGTTTTTTAGCAATTTAATGGCTACATTTTAGAGTCTTCCATTTTTTGTGGAATTAGATCCTCCCTTC
AAATGCTGTAATTAACATCACTTAAGAAAACCTGAATAAAATGTTGAAACCTC

6749/6881
FIGURE 6233

TAGCTGGATTCCAGCCATTGCTGCAGCTGCTCCACAGCCCTTTTCAGGACCCAAACAACCGCAGCCGCTGTTCCC
AGGATGGTGATCCGTGTATATATTGCATCTTCCTCTGGCTCTACAGCGATTAAGAAGAAACAACAAGATGTGCTT
GGTTTCCTAGAAGCCAACAAAATAGGATTTGAAGAAAAAGATATTGCAGCCAATGAAGAGAATCGGAAGTGGATG
AGAGAAAATGTACCTGAAAATAGTCGACCAGCCACAGGTTACCCCTGCCACCTCAGATTTTCAATGAAAGCCAG
TATCGCGGGGACTATGATGCCTTCTTTGAAGCCAGAGAAAATAATGCAGTGTATGCCTTCTTAGGCTTGACAGCC
CCACCTGGTTCAAAGGAAGCAGAAGTGCAAGCAAAGCAGCAAGCATGAACCTTAAGCACTGTGCTTTAAGCATCC
TGAAAAATGAGTCTCCATTGCTTTTATAAAAATAGCAGAATTAGCTTTGCTTCAAAGAAAATAGGCTTAATGTTGA
AATAATAGATTAGTTGGGTTTTACATGCAAAACATTCAAATGAATACAAAATTTAAATTTGAACATTATGGTGA
TTATGGTGAGGAGAATGGGATATTAAACATAAAAATTATATTAATAAGTAGATATCGTAGAAAATAGTGTTGTTACCT
GCCAAGCCATCCTGTATACACCAATGATTTTACAAAGAAAACACCCTTCCCTCCTTCTGCCATTACTATGGCAAC
TTAAGTGTATCTGCAGCTCTACATTAAGGAGAAAGAGAAAATAACCTGTCTCTCATTCCCTAAGTTGCCCTCATT
AATTTTCATGAACAAGAATATGTACCTTTTTGATGCTATATTACTGCGATTAAAAAGTTCTTGCAGGTAATGTTT
ATGATATGTTAAACGTTGTAATTTCCCTATCGTAATTATAACATTCCCATTCCTTTGTAGATGAAACTTCTACATA
TTGAACCACAGATTTTCTGAGCTTCTAAATGTAGCCTTTCATTGCACATTTTCAGTGATCAGAATAGATATCCTTT
TACACGCACAAAAGCAATAGATTCATTTCAGTGGACAAGTTCCTTGTTTAACTACACAGCTATGATGGAATGATAT
ATCCAAGTTCCTTGCCCTCAGTGAAATATGCATATGTATATCATGAAAGTGGGATGCCAAGTAAGCTTAAATGGC
ATTCTCTAGCAAAGAGATTAGACTTTTAAATAACTCTTATAAAACAGGTTGGCGATCATTCCCAAGATTGGTTT
CCCTTGAGTTTTTGTCTAAAACAAATCTTAGTAGTTTTGCCCGTTTAAACAACCTCACAATCGTAAATGCTACTAT
TCCTAAGATATCTTACCTTTTTATTTCAGTTTAGCCATGTATTGTATGAGTGTATTAGTCTAAGCAGTGAGAATC
TTTTCTATGCCTCTATTCCAGCAAAAAGTAGAAGTATCAAATAAAAAGGGCAACTTTTAAATATTAAGCCTGAA
GACTTCTAAAAGACAAGAAACATGGCCTAAATAACCAACATAGATTTACATAGTAAGTTTCACACTACCTTATT
ACCAAAAGCAAACACCTCTTACTTTAAACTACATTATCATGTATATCTATTGTATGCTGGTCTTTACTTTTTGCC
AAAATCAACATATAATGAAGAGATGCCTTTGTTTCATGAGATTCAAACCTTGATGCTATGCTTTAAATAAACTCA
GTACTTTTAGAAACAT

6750/6881
FIGURE 6234

MVIRVYIASSSGSTAIAKKKQDVLGFLEANKIGFEEKDIAANEENRKWMRENVPENSRPATGYPLPPQIFNESQY
RGDYDAFFEARENNAVYAFLGLTAPPGSKEAEVQAKQQA

6751/6881
FIGURE 6235

TTTCCGCACTACCTACAGAGGGGTCCATAGGGGGTTGTTCTAGATTCCCGTCGTAACCTAAAGGGAACTTTCAC
AAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTT
AGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGACAGCTCGTGCTATTGTTGCCATTGAAAACCCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTTGGTTAG
TGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAAACAC
AGATTCTCCTCTGCACTATGTGGACATTGCCATCCCATGCAACAACAAGGGAACCTCACTCAGTGGGTTTGATGTG
GTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTCGTGAACACCCATGGGAGGTCATGCCTGA
TCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAATGACCAGGGA
GGAACCTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCTCTGTGCCTATTTCAGCAGTTCCCTACTGAAGACTGGAGCACTCAGCGTGCCACGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTTAAGCTGTTCTTGC
ATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

6752/6881

FIGURE 6236

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLTARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFREPRLLVSDPRADHQPLTEASYVNLPTIALCNT
DSPLHYVDIAIPCNNKGTHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKAMTRE
ELQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSTQRATEDWSAAPTQAATEWVGATTDWS

6753/6881
FIGURE 6237

GATCATGTCTGTAAGCCAGGATTCTTGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGAAGGCGTCATCGA
GAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCGTGACATCTATGC
CTATGGTTTTTGAGAAGCCCTCTGCCATCCAGCAGCAAGCCATTCTACCTTGTATCAGGGGTTATAATGTAATCGC
TCAAGCCTGATCTGGGACTGGGAAAATGGCCACATTTGCCATATCGATTCTGCAGCAGATTGCATTAGATCTAAA
AGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGTCATGGCACTAGT
AGACTACATGGGTGCCCTCCTGTCATGCCTGTATCAGGGGCACCAATGTGCGTGCTGAGGTGCAGAACTGCAGAT
GGAAGCTCCCCACATCATCGTGGGTACCCCTAGCTGTGTGTTTGATATGCTTAACCGGAGATACCTATCTCCCAA
ATACATCAAGATGTTTGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCAGATCTATGACAT
ATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGTGTGTCAGCTACAATGCCTTCTGATGTGCTTGAGGTGAT
CAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGGTATCCGCCAATT
CTACATCAACGTGGAACGAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCTGACCATCACCCA
GGCAGTCATCTTCATCAATACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCGAGATTTCACTGT
CTCCGCCATGCATGGAGATATGGACCAAAAGGAGCGAGACGTGATCACGAGGGAGTTTCGTTCTGGCTCTAGCAG
AGTTTTGATTACCACTGACCTGCTGGGAAAACCTATATCCACAGAATCAGTCGAGGTGGACAGTTTGGCCGTAAAG
ATGTGGCTATTAAACATGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACCTTCTACAACACCTCCA
TTGAGGAAATGCCCCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCACCCAGCCCCAGCCAGGGCTCAAT
CTCGGGGGGCTGAGGAGCAGCAGGAGAGGGGAAGGAAGGGAGCCAAGGGATAGACATCTTGTCAATTTTTTTTCTT
TGAATAAATGTCACTTTTTTGAGGCAAAA

6754/6881
FIGURE 6238

TCGTCGGCAAAGCCTGAGTCCTGTCCTATCTCTCTCCTCCCCGGACAGCATGAGCTTCACCACTCGGTCCACCTT
CTCCACCAACTACCAGTCACTGGGCTCTGTCCAGGCGCCAGCTACGGCGCCCGGCCGGTCAGCAGCGCGGCCAG
CGTCTATGCAGGCGCCGGGGGCTCTGGTTCCCGGATCTCCGTGTCCCGCTCCACCAGCTTCCGGGGTGGCATGGG
GCCTGGGGGCTGGCCGCGGGGATGGCTGGGGGTCTGGCAGGAATGGGAGGCATCCAGAACAAGAAGACCATGCA
AAGCCTGAACGACCGCCTGGCCTCTTACCTGGACAGAGTGAGGAGCCTGGAGACTGAGAACCGTAGGCTGGAGAG
CAAAATCCGGGAGCACTTGGAGAATAAGGGACCCAGGTCAAAGACTGGAGCCATTACTGCAAGACCATCGAGGA
CCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCTGCATCGTTCTGCATATTGACAATGCCCGTCTTGC
TGCTGATGACTTTAGAGTCAAGTATGAGACACAGCTGGCGATGCGCCAGTCTGTGGAGAACGACATCCATGGGCT
CCGCAAGGTCATTGATGACACCAATGTCACTTGACTGCAGCTGGAGACAGAGATTGAGGCTCTCAGGGAGGAGCT
GCTCTTCATGAAGAACCACGAAGAGGAAGTAAAGGCCCTACAAGCCCAGATTGCCAGCTTTAGGTTGACCGTGGA
GGTAGATGCCCCCAAATCTCAGGACCTCGCCAAGATCATGGCAGACATCCGGGGCCAATATGACGACCTGGCTGG
GAAGAACCGAGAGGAGCTAGACAAATACTGGCCTCAGCAGTTTGAGGAGAACACCACAGTGGTCACCACAGTCCG
CCGAGGTTGGAGCTGCTGAGATGACGCTCACAGAGCTGAGACGTACAGTCCAGTCCTTGGAGATCGACCTGGACT
CCATGAGAAATCTGAAGGCCAGCTTGGAGAACAACCCGAGGGAGGTGGAGGCCCGCTACTCCCTACAGATGGTGC
AGCTCATCGGGATCCTGCTGCACCTGGAGTCAGAGCTGGCACAGACCCGGGCAGAGAGACAGTGCCAGGCCCAGG
AGTAATGAGGCCCTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCGCCACCTACCGCCGCCTGCTGGAAGAT
GGCGAGGACTTCACTCTTGGTGATGCCTTGGACAGCAGGAATCCATGCAAACCATCCAAAAGACCACCACCCGC
CGGAAAGTGATGGCAAAGTGGTGTCTGAGACCAACAACACCAAAGTTCTGAGGCATTAAGCCAGCAGAAGCAGG
GTACCCTTTGGGGAGCAGGAGGCCAATAAAAAGTACAGAGTT

6755/6881
FIGURE 6239

CGGAAGCCGACTCAACAGAGCTATGCGCGGGTTTGAAGTGTGAGAGACCCAGCGGTGGATCGTTCTCTACGTTCTGT
GTTCTGTGGGGAACATTCCCTTATGAAGCTACTGAAGAGCAGTTGAAGGACATCTTTTCTGAGGTTGGACCTGTTGT
TAGTTTCAGATTGGTATACGATAGAGAGACAGGAAAGCCAAAGGGTTATGGCTTCTGTGAATACCAAGACCAAGA
GACAGCACTTAGTGCCATGCGGAACCTGAATGGGCGCGAATTTCAGTGGGAGAGCACTTCGAGTGGACAATGCTGC
CAGTGAAAAGAACAAGAAGAGCTGAAGAGCCTTGGCACTGGTGCCCTGTCATTGAGTCACCTTATGGAGAGAC
CATCAGTCCCTGAGGATGCCCCTGAGTCCATTAGCAAAGCAGTTGCCAGCCTTCCACCAGAGCAGATGTTTGAGCT
GATGAAACAAATGAAGCTCTGTGTCCAGAATAGTCCCCAGGAGGCACGGAACATGTTACTTCAGAACCCCTCAACT
GGCTTATGCTTTGCTGCAAGCACAGGTAGTGATGAGAATTGTGGATCCGGAAATTGCCCTGAAAATTCTGCATCG
CCAGACAAATATCCCAACGCTGATTGCAGGCAACCCCTCAGCCAGTCCATGGTGCTGGGCCTGGCTCAGGATCCAA
TGTGTCAATGAACCAGCAGAATCCTCAGGCCCCCTCAGGCCAGTCTTTGGGTGGAATGCATGTCAATGGCGCACC
TCTCTGATGCAAGCTTCTATGCAGGGTGGAGTTCAGCACCAGGGCAAATGCCAGCTGCTGTACAGGACCTGG
CCCTGGTTTCCTTAGCTCCTGGAGGAGGAATGCAGGCTCAGGTTGGAATGCCAGGAAGTGGACCAGTGTCCATGGA
ACGGGGGCAAGTGCCGATGCAAGACCCAGAGCAGCTATGCAGCGGGGATCCTTGCCCTGCGAATGTCCCAACCCC
TCGAGGCTTGTTAGGAGATGCTCCGAATGATCCACGGGGAGGCACCTTTACTTTCTGTAAGTGGAGAGGTAGAGCC
TAGAGGTTACTTGGGACCACCTCATCAGGCTCCACCCATGCACCATGTCCCTGGCCATGAGAGCCGAGGACCACC
CCCACATGAAGTGAAGGGAGGGCCATTACCCGAGCCAGACCTCTAATGGCAGAACCAAGAGGACCCATGCTAGA
TCAGAGGGGTCCACCCTTGGATGGCAGAGGTGGAAGGGATCCCCGAGGAATAGATGCACGAGGGATGGAGGCCCG
AGCCATGGAGGCAAGAGGGTTAGATGCCAGAGGATTAGAGGCCCGTGCAATGGAGGCCCCGTGCGATGGAAGCTCG
TGCAATGGAGGCCCCGAGCGATGGAGGCCCGTGCAATGGAAGTCCGAGGGATGGAGGCCAGAGGCATGGATACCAG
AGGCCAGTGCCTGGCCCCAGAGGACCTATACCTAGTGAATGCAGGGTCCCAGTCCAATTAACATGGGGGCGGT
TGTCCCCCAGGGATCCAGACAGGTCCCAGTCATGCAGGGAACAGGAATGCAAGGAGCAAGTATACAGGGTGAAG
CCAGCCTGGCGGCTTTAGTCCCGGGCAGAACCAAGTCACTCCACAGGATCATGAGAAGGCTGCTTTGATTATGCA
GGTTCTACAAGTGAAGTGCAGACCAGATTGCCATGTTGCCTCCTGAGCAAAGGCAGAGTATCCTGATTTTAAAGGA
ACAAATACAGAAATCCACTGGAGCACCTTGATAGGTTTTCAAAAATACCTGGCAAGAAATCTGGAAATTTCTATAA
TTTTGTTGAAATATTGAAAAAAGATGACCTGCATCCTAACCTTGAATGACTCAAATCAGTGCCAGGTGGAGGAC
TCCCATCACCTTCTCTCAGAACAAAATCACTTCATTTTATTGTCTTAGTTTGTATATTTTCTGTGACTTGAAATA
AACTTTGAACACAATTTTAGTACACTGC

6756/6881
FIGURE 6240

MAGLTVRDPAVDRSLRSVFGNIPYEATEEQDKDIFSEVGPVVSFRLVYDRETGKPKGYGFCEYQDQETALSAMR
NLNGREFSGRALRVDNAASEKNKEELKSLGTGAPVIESPYGETISPEDAPESISKAVASLPPEQMFELMKQMKLC
VQNSPQEARNMLLQNPQLAYALLQAQVVMRIVDPEIALKILHRQTNIPTLIAGNPQPVHGAGPGSGSNVSMNQON
PQAPQAQSLGGMHVNGAPPLMQASMGGVPAPGQMPAAVTGPGPGSLAPGGGMAQVGMFGSGPVSMEERGQVPMQ
DPRAAMQRGSLPANVPTPRGLLGDAPNDPRGGTLLSVTGEVEPRGYLGPPHQGPPMHVPGHESRGPPPHELRGG
PLPEPRPLMAEPRGPMLDQRGPPLDGRGGRDPRGIDARGMEARAMEARGLDARGLEARAMEARAMEARAMEARAM
EARAMEVRGMEARGMDTRGPVPGPRGPIPSGMQGPSFINMGAVVPQGSRQVPVMQGTGMQGASIQGGSQPGGFSP
GQNQVTPQDHEKAALIMQVLQLTADQIAMLPPEQRQSILILKEQIQKSTGAP

6757/6881
FIGURE 6241

AAGGGTTGGCTGCGCGTGC GGCGGGAGTAGAGGCGCCTTGCGCACCAGGAAGTGACTGTTTCCCCGCCGCGAGCAA
ACCAGGCCATCCGCTGGCCTTTTAGTTTGCCGCCTCAGGTTTGTAAGAGGATTTATTGGTTACGAAGGAAGGTGG
ATTTCAAGTGTGTTCTTTGGATGGCAGGCCTTAAGAGAAGAGTCCCAGTGCACAGCCTCAGATACTTCATCTCCAT
GGTGGGTCTCTTCTCCAAACCAGGACTGCTTCCCTGGTATGCCAGAAAATCCACCAGGATGGTCACAGCTCTTTCT
GGGCACAGTATGTAAGGGAGATTTACCCGTGTGATAGCCACGAAATGTCAGAAAGGACAAAAAGTCAGAAGAA
ACCAAGCCATCTTGGACCACTAGATGGTTCCCTGGCAGGAAAGGCTGGCTGATGTTGTGACACCACTCTGGAGGTT
GAGCTATGAAGAACAGCTCAAGGTGAAATTTGCAGCTCAGAAGAAAATTTTACAAAGACTAGAGTCTTACATCCA
AATGCTCAATGGAGTCAGTGTGACAACGGCTGTACCCAAATCTGAGAGGCTCTCTTGTCTTCTCCATCCTATTAT
ACCTCTCTCTGTCAATCAATGGTTACCGAAATAAGTCCACCTTCTCTGTGAACCGAGGTCCAGATGGCAATCCAAA
GACTGTGGGGTTCTACCTGGGAACCTTGGAGAGATGGGAACGTTGTCTGTGTGACAGTCTAATCATCTGAAAAACAT
CCCTGAGAAACACAGTCAAGTGGCGCAGTACTATGAAGTATTCCTTCGACAGTCTCCATTGGAGCCCTGCCTTGT
ATTTCAATGAAGGTGGATACTGGCGTGAGCTCACAGTCCGCACCAATAGCCAAGGGCACACAATGGCTATCATCAC
TTTCCATCCCCAGAAATTAAGTCAGGAGGAGCTCCATGTTTCAGAAGGAGATTGTAAAGGAATTTTTTCATCAGAGG
TCCTGGAGCAGCCTGTGGCTTGACCTCACTTTACTTCCAGGAAAGTACCATGACCCGTTGCAGCCATCAGCAGTC
TCCCTATCAGCTTCTGTTTGGGGAACCTACATCTTTGAAGAACTTCTGAGCTTGAAGATCCGCATCTCTCCAGA
TGCCTTTTTCCAGATTAACACAGCTGGTGCAGAGATGCTGTATCGGACTGTGGGGGAGCTGACTGGAGTGAACCTC
TGACACCATCCTTCTTGACATCTGCTGTGGAACCTGGTGTGATTGGCCTCTCTCTGGCTCAGCATACATCTCGGGT
CCTTGGGATTGAATTGTTGGAGCAGGCAGTGGAGGATGCAAGATGGACTGCAGCCTTCAATGGCATCACCAACTC
TGAATTTCACTAGGTCAAGCAGAGAAGATTTTGCCAGGGCTGCTAAAGTCAAAGGAAGATGGACAGTCAATTGT
TGCTGTGGTGAACCCAGCCCGTGCCGGACTGCATTACAAGGTGATTCAAGCCATTGCAAACCTCAGGGCCATCCA
CACGCTAGTTTTTTGTTTCCCTGCAAGCTCCATGGTGAATCCACTAGGAATGTCATTGAGCTGTGCTGCTCCTCCAGA
CCCTGCTAAGAAGCTCTTAGGCGAGCCCTTTGTCCTGCAGCAAGCTGTACCTGTGGATTTGTTCCCTCACACCCC
ACATTGTGAGCTGGTGTCTCTTTACTCGATAAGCAGCCTCCTAGAAGACAGCAGGCTATTTGTTAAGGCTGAA
GTTTCAGAACTTTTCAAGTTTGGCATATTGCTACATTGCAGACCCTGGGAGCATTACAGTGGAAACCAATCTTTG
GTTTGTGAATAGGAAGAATCTATTAGGCCTCTGGTCTGAGGCAGATTTTTTTTTTTGAGATAGAGTCTCACTCTTG
CCCAGGCTGGAGTGTCTGTGGCGTGATCTCAGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGTGATTCTCGTGCC
TCAGCTTCCCCAGTAGCTAGGATTAAAGGTGCGTGCCACCATGCCCCGGCTAATTTTTTGATTTTTTGGTAGAGACA
GGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAAGTGATCCACCCGCTCGGCCCTCTCAAAGT
GCTGGGATTATAGGCGTGAGCCACCACACCCCGCCGCGGCTGACTTAACCTTAGATTTTCAAGATTCCCTTTCAATC
ATGCCCGTTTGCTTGGGTTTGACCACTCCCCACTCCTGGATCTGGACTGTTTCTTCCCTGTTGCTGTGACCTTGG
TTCTAGTTTATAGTCTTGTCTCCTCCGTTTCTGCTTATGGTGTGGACAAATGACCTTTTTTTAAGCAGCTGGTAAT
AATTTTACATTGACTGGAGCCTGTGCATTGCTCAGAGATGCTACAATTTTTTAGATAATTTCTAAGACTTCTGGAT
TCTTGAGGTAGTTAAGGATTAAAACCAGAAACAGTCGAGGTTTTTTTAAAGCAGGGTAAGCCATGAAGTGAATAC
AGGGTGACTGAGTGATCATCAGATGAGATTAATCTTTTGGGTTTTCTTGGTTTTAAGGCATCTCGAATGCCCT
TGAAAATGTAGTTTTTCCCTGGTGGTGGGCACCTGTAATCCAGCTACTCGGGAGGCTGAGGCAGGATAATTGCTT
GAACCTGGGAGGTGGAGGTTGCAGTGAGCTGAAATTGTGCCACTGCACTCCAGCCTGGGTGACAGAGTGAGACAC
CATCTC

6758/6881
FIGURE 6242

GCGGAGTTCGTCTCTGCAAGCTTGGTCGCCCTGGGATGGATTCTCCTCCTCTTCTCCGCGGCGGGTTTGGGTG
CAGTGGACCCACAGTTGCAGCATTTTCATCGAGGTAGAGACTCAAAAGCAGCGCTTCCAGCAGCTGGTGCACCAGA
TGA CTGAACTTTGTTGGGAGAAGTGCATGGACAAGCCTGGGCCAAAGTTGGACAGTCGGGCTGAGGCCTGTTTTG
TGA ACTGCGTTGAGCGCTTCATTGATACAAGCCAGTTCATCTTGAATCGACTGGAACAGACCCAGAAATCCAAGC
CAGTTTTTCTCAGAAAGCCTTTCTGACTGATCTCAGCATTACCTCTTTGGAAAAGGAAGGTAGTTCAAGAAATGAA
GAGCTGTTGATGGGATGATTGAAGAAACAGCTATGAGAGGATTGGCTCCCATCTTTTGTTACTCTTGGGACATCC
TGTCATCTGAGAATGAACAAAGACCAATTTTTTGTGTGTGAAGCTTAAGGGTCATATGTTTGCTTGTATTTTTTA
ATGCTAATCTTGTGAAAATAATTGACAGGCGAAAGAAAACCTCTATTTAGATGCATATTACTGTACATGGGACTAT
GCTTTTCTCAAAGCCCCATTAACTGCTTCCTATAATTTTGATAGTGGGACCACATACGTAAAAATCTCTCATTTG
TGTGGAGTCATTTCTGATTTTCAGGGGAGATCCTTGTGTTTATCAGAAAGGGCAGAAGTAGGGGAAGAATAATTTG
GTATCCTTATCTAGTGTGTTGATTGTCAATGCTGGAGAAAAATATCTGTAAGAGTGTGTTATACAGTACACTTCAGT
TATCTTGATCTCCCTTTCCCTATATGATGATTTGCTTAAATATCCATATTAAGTAAGTCTCAAGGTAGGGTAGGCA
GCCTGAGAGTCTAGAGGCCTTTAGTTATAAAGGAATCTAGCCAGTGAACATAATTCTTATTACTAGACTGCCACA
AGGAAGAAATTAACCTTACCCTGTATATCAGGGTACAAAAAATTCAGTGATGTGCCTAAATAAGTTATAAAGATTT
AGGCCAATCAGAAGCTAACAGCAGTTTCAGGTAGAGGTGCATGCCTAATGTTAGTTAGTGTAGATTCCATTTACT
GCATTCTTCTGATCACTGAAATAAAAGCTATATAAGATTCTATA

6759/6881
FIGURE 6243

MDSSSSSSAAGLGAVDPQLQHFIEVETQKQRFQQLVHQMTCLWEKCMDKPGPKLDSRAEACFVNCVERFIDTSQ
FILNRLEQTQKSKPVFSESLS

6760/6881

FIGURE 6244

GCGGTTTCTTTCTTTCCGCGCCGATAGCGCTCACGCAAGCATGGTTAACGTCCCTAAAACCCGCGGACTTTCTG
TAAGAAGTGTGGCAAGCACCAACCCCATAAAGTGACACAGTACAAGAAGGGCAAGGATTCTCTGTACGCCCAGGG
AAAGCGGCGTTATGACAGGAAGCAGAGTGGCTATGGTGGGCAAACTAAGCCGATTTTCCGGA AAAAGGCTAA AAC
TACAAAGAAGATTGTGCTAAGGCTTGAGTGC GTTGAGCCCCAACTGCAGATCTAAGAGAATGCTGGCTATTAA AAG
ATGCAAGCATT TTTGAACTGGGAGGAGATAAGAAGAGAAAGGGCCAAGTGATCCAGTTCTTAAGTGTCATCTTTTAT
TATGAAGACAATAAAATCTTGAGTTTATGTTCAAAAAAAAAAAAAAAAAAAAA

6761/6881
FIGURE 6245

MVNVPKTRRTFCKKCGKHQPHKVTQYKKGKDSLYAQGKRRYDRKQSGYGGQTKPIFRKKAKTTKKIVLRLECVEP
NCRSKRMLAIKRCKHFELGGDKKRKGQVIOF

6762/6881
FIGURE 6246

CACGTCGGCTGCTGGGAAGATCTGGATTCTCGTTTCAGGTCACCATCAGAAAAGCTAAGTTTGCTGTATAGTGAG
GATCAGGAGATCTGATCCTGATTGCAGAACCTTCCCTGATTACAGAATCTTGGATGATTTACAAAAGTTCATCT
TCATTGCAGATACCTGCCTTTCTTTCTAGGTTGTATCTCCCACTTCACCCCTTCTAGACCATCCAGAAAGATCTAT
AAGATTTCACTCTGGGAAATCACTAGGAGTTCTTGGAAGGGAAAGAAGGAAAGATTGTTGGTTGGAATAAAAAACAGG
GTTGAATGAGTTCCAGAAAAGCAGGGTTCTCAACCTCGTGGACAGCAATCTGCAGAAGAAGAGAACTTCAAAAAAC
CAACTAGAAGCAACATGCAGAGAAGTAAAATGAGAGGGGCTCCTCAGGAAAAGAAGACAGCTGGTCCACAGCAGA
AAAATCTTGAACCAGCTCTCCCAGGAAGATGGGGTGGTCTGCTGTCAGAGAACCCCCCTTCAGGATCCGTGAGGA
AGACCAGAAAAGAAACAAGCAGAAGACTCCTGGAAACGGAGATGGTGGCAGTACCAGCGAAGCACCTCAGCCCCCTC
GGAAGAAAAGGGCCCCGGGCAGACCCCACTGTTGAAAGTGAGGAGGCGTTTAAGAATAGAATGGAGGTTAAAGTGA
AGATTCTTGAAGAATTAAAACCATGGCTTGTGAGGACTGGGACTTAGTTACCAGGCAGAAGCAGCTGTTTCAAC
TCCCTGCCAAGAAAAATGTAGATGCAATTCTGGAGGAGTATGCAAAATGCAAGAAATCGCAGGGAAATGTTGATA
ATAAGGAATATGCGGTTAATGAAGTTGTGGCAGGAATAAAAGAATATTCAATGTGATGTTGGGCACTCAGCTGC
TCTACAAATTTGAGAGGCCCCAGTATGCTGAAATCCTCTTGGCTCACCCCTGATGCTCCAATGTCCAGGTTTATG
GAGCACACACCTACTGAGATTATTTGTAAGAATTGGAGCAATGTTGGCCTATACGCCCCCTTGATGAGAAAAGCC
TTGCATTATTGTTGGGCTATTTGCAATGATTTTCTTAAATATCTGGCAAAGAATTCTGCATCTCTCTTTACTGCCA
GTGATTACAAAAGTGGCTTCTGCTGAGTACCACCGCAAAGCCCTGTGAGCGTCTACAGACAGCTCACCATTTTTGT
CCTGTATCTGTAAACACTTTTTTGTCTTAGTCTTTTTCTTGTAATTTGATGTTCTTTAAATCGTTAATGTATA
ACAGGGCTTATGTTTCAGTTTGTCTTCCGTTCTGTTTTAAACAGAAAATAAAAGGAGTGAAGCTCCTTTTCTCA
TTTCAAAGTTGCTACCAAGTGTATGCAGTAATTAGAACAAAGAAGAAACATTCAGTAGAACATTTTATTGCCTAGT
TGACAACATTGCTTGAATGCTGGTGGTTCCTATCCCTTTGACACTACACAATTTCTAATATGTGTTAATGCTAT
GTGACAAAACGCCCTGATTCCCTAGTGCCAAAGGTTCAACTTAATGTATATACCTGAAAACCCATGCATTTGTGCT
CTTTTTTTTTTTATGGTGCTTGAAGTAAAACAGCCCATCCTCTGCAAGTCCATCTATGTTGTTCTTAGGCATTCT
ATCTTTGCTCAAATTTGTTGAAGGATGGTGAATTTGTTTCATGGTTTTTGATTTGAGTCTAATGCACGTTCTAACA
TGATAGAGGCAATGCATTATTGTGTAGCCACGGTTTTCTGAAAAGTTGATATTTTAGGAATTGTATTTAGATC
TTAAATAAAATTTGTTTCTAAATTC

6763/6881
FIGURE 6247

MSSRKQGSQPRGQQSAEEENFKKPTRSNMQRSKMRGASSGKKTAGPQQKNLEPALPGRWGGRSAENPPSGSVRKT
RKNKQKTPGNGDGGSTSEAPQPPRKKRARADPTVESEEAFKNRMEVKVKIPEELKPWLVEDWDLVTRQKQLFQLP
AKKNVDAILEEYANCKKSQGNVDNKEYAVNEVVAGIKEYFNVMLGTQLLYKFERPQYAEILLAHDPAPMSQVYGA
PHLLRLFVRIGAMLAYTPLDEKSLALLLGYLHDFLKYLAKNSSASLFTASDYKVASAEYHRKAL

6764/6881
FIGURE 6248

TTGGTCTAAGACATGGGCTGACAACTTTTTCCATAAAGGGCCAGAAAGTAAATATTTTCAGGCTTTGTGGGATAT
CTATTTATGATTTATTTTACTCCTAGTATTATTTTCATCTTTTATACAGGTTATTAAGGTTAGTATTGCTGCATAA
CAAATTACTCCAAAATTTAATCATTATATTCAAGAAGAGTTCAGCTGCTAGGTTCTTATTTTGGGACTCTCATG
ATGCTGAGGTCAAGATGCCAGCTGGAGGCCAGGCGCCGCAGCTCACGCCTGTAATCCCAGCGTTTTTGGGAGGCCA
GGGGCTCCCAAATTCAAAAGGAAGAGACAAAGTCCACATCTGTCAATGCGAAGAATGGAAAGGTCACATATCAT
ATGTGGAGCGGGACATAACAACTTCGGAAATTAATCTCTTCCCCAGGTCAGTGTGCGGGCCTTCCACGCTGCCA
GCGGAACACTGGAATGGCGGAAGGGGAACGGGTACGGCAGGGGGAAAGGCTGGGGGTGGGGTCGGGTCGAGTCGA
GGGAAGCTGGCCCGAGTGTGGACAGAGATGGCGGTCTGCGCGTCTGTTGTTCCAGCGCTCTGCGAAGCCTGAAA
AGGAGGAGCAACCTGTCCAGAATCCCCGCAGGTCCGTGAAAGACAGGAAAAGGAGGGGAAATCTCGACATGGAAA
AACTCTACAGTGAATAATGAAGGAATGGCTTCAAACCAAGGAAAGATGGAAAATGAAGAACAGCCACAAGACGAGA
GAAAGCCAGAAGTAACCTTGTACTCTGGAAGACAAGAAGTTAGAAAACGAGGGAAAGACAGAAAACAAGGGCAAAA
CAGGAGATGAGGAAAATGTTAAAGGATAAAGGAAAGCCAGAGAGTGAGGGAGAGGCAAAAGAAGGAAAGTCAGAGA
GGGAGGGAGAGTCAGAGATGGAGGGAGGATCAGAGAGAGAGGGGAAAACCAGAGATAGAGGGAAAGCCAGAGAGTG
AAGGAGAGCCAGGGAGTGAACAAGGGCTGCAGGAAAGCGCCAGCTGAGGATGATGTACCCAGGAAAGCCAAAA
GAAAAACTAATAAGGGGCTGGCTCATTACCTCAAGGAGTATAAAGAGGGCCATACATGATATGAATTTAGCAATG
AGGACATGATAAGAGAAATTTGACAATATGGCTAAGGTGCAGGATGAGAAGAGAAAAAGCAAACAGAAATTGGGGG
CGTTTTTGTGGAATGCAAAGAAATTTACAGGACCCCTTCTACCTTAGAGGTCCAAGGGAATTCAGGGGTGGCTGCA
GGGCCCCACGAAGGGACATTGAAGACATTCCTTATGTGTAGTGTCCCTGGCAGGCATTTACCAGGCCATGTGCTT
TAACGTTACGGTAATACTTTACTTTAGGCATCCCTCCTGTTGCTAGCAGCCTTTTGACCTATCTGCAATGCAGTG
TTCTCAGTAGGAAATGTTTCATCTGTTACATGGAAAAATGTTGATGGTGCATTGTAAAATTAAAAACACAACCTT
GCAGAACCAAAAAAAA

6765/6881
FIGURE 6249

MPAGGQAPQLTPVIPAFWEARGLPNSKGRDKVHICQCEEWKGHISYVERDITTSEIKSLPQVSVRAFHAASGTLE
WRKGNGYGRGKGWGWGRVESREAGPSVDRDGGRLRVCCSQRSAPKEKEEQPVQNPRRSVKDRKRRGNLDMEKLYSE
NEGMASNQGKMENEEQPQDERKPEVTCTLEDKKLENEGKTENKGKTGDEEMLKDKGKPESEGEAKEGKSEREGES
EMEGGSEREGKPEIEGKPESEGEPPGSETRAAGKRPAEDDVPRKAKRKTNKGLAHLKEYKEAIDMNF SNEDMIR
EFDNMAKVQDEKRKSKQKLGAFLWMQRNLQDPFFYPRGPREFRGGCRAPRRDIEDIPYV

6766/6881
FIGURE 6250

GAAGTCCTGGTAATCTGGTCCTTGTTCCCGTCTGGATACCAGCTTCCTTCAGCAGCGCAGGCGGTGGTCCCTGAG
GCCCCGTGGAAGGAGTCAAACCTGCGGGAATTTTGCAGTTTATCTGCAGGGCTGTTGTTTCCAGCAAGACCCAAAG
CTAGAAAAGGAGGAGGAAGAACTGACCCGATCAGTGCCAGAAGTCATTGTATTCAAAGAAGAATAAGCAAGAAA
GAAAAGAAGGAAGGAAGAGAGGTAGACAGATACAAGATGAAATCCTGTCAAAAAATGGAAGGAAAACCAGAAAAT
GAGAGTGAACCAAAGCATGAGGAAGAGCCAAAGCCTGAGGAAAAGCCAGAAGAGGAGGAGAAGCTAGAGGAGGAG
GCCAAAGCAAAGGAACTTTTAGAGAAAGGCTGATTCAATCTCTCCAGGAGTTTAAAGAAGATATACACAACAGG
CATTTAAGCAATGAAGATATGTTTAGAGAAGTGGATGAAATAGATGAGATAAGGAGAGTCAGAAACAAACTTATA
GTGATGCGTTGGAAGGTAAATCGAAACCATCCTTACCCCTATTTAATGTAGTTTACCTTGATTTTTATCTGATAT
TAACAATACCATATAGCTTGCTTTTTATTAGCATTTCCTGATATTCCTTTGTCCATATTTCTACTTATAACCTGT
TGCTATTAATGGTTTTAGATGTATCTCTTGTTATCTGCATCTCATTGTTTATTGTATTTGAACCAATCTACAAG
TCTCTGTCTTTTAATAAAAGAACTTTACACATTTGTAAAAAGAGGTTCTTGGTAAGATATAAAATGGAAAAAGG
CTAAGTAATATGTGAATATCATATTTTTGAAAGGTAAAAAGTACATTTGTATATTACATATATGGACATAACTTG
TGAAGGATGAAAGAAAGTACAGCCTCTCGGTGGTGGGATTATGAATGATTTTTCTCCTTTTGCTTGTTTGTATTT
TCTATATTCCTAAAATTAACACACATTATTATTGCTAGAATAATAAAAGTTTTAT

6767/6881
FIGURE 6251

CAGGATGACAGCTGGAGAATGGAGTCAGTTTTATCCAAGTATGAAGATCAGATTACTATTTTCACTGACTACCTA
GAAGAATATCCAGATACAGATGAGCTGGTATGGATCTTAGGGAAGCAGCATCTCCTTAAACAGAAAAATCTAAG
CTGTTGTCTGATATAAGTGCTCGTCTATGGTTTACATACAGAAGGAAATTTTCACCAATTGGTGGAACGGGCCCT
TCATCAGATGCTGGTTGGGGATGTATGCTACGCTGTGGACAGATGATGCTGGCTCAAGCCCTTATCTGTAGACAC
TTGGGAAGGGACTGGAGCTGGGAGAAACAAAAAGAACAACCCAAAGAATACCAACGCATCCTACAGTGCTTCTTA
GATAGAAAAGATTGTTGCTACTCTATCCATCAAATGGCACAAATGGGTGTAGGAGAAGGGAAATCAATTGGAGAA
TGGTTTGGACCAAATACAGTTGCACAGGTGTTAAAAAACTTGCTTTATTTGACGAATGGAATTCCTTGGCTGTT
TATGTTTCAATGGATAACACAGTGGTCATTGAAGATATCAAAAAATGTGCCGTGTCCTTCCCTTGAGTGCTGAC
ACAGCTGGTGACAGGCCTCCCGATTCTTTAACTGCTTCAAACCAGAGTAAGGGCACCTCTGCCTACTGCACAGCC
TGGAAACCCCTGCTGCTCATTGTGCCCCTTCGCCTGGGCATAAACCAAATCAATCCTGTCTATGTTGATGCATT
AAAGAGTGTTTTAAGATGCCACAGTCTTTAGGGGCATTAGGAGGAAAACCAAATAACGCGTATTATTTTCATAGGA
TTCTTAGGTGACGAGCTCATCTTCTTGACCCTCATACAACCCAGACCTTTGTTGACACTGAAGAGAATGGAACG
GTTAATGACCAGACTTTCCATTGCCTGCAGTCCCCACAGCGAATGAACATCCTAAACCTGGATCCTTCAGTTGCA
TTGGGATTTTTCTGCAAAGAAGAAAAAGACTTTGATAACTGGTGTAGCCTTGTTGAGAAGGAAATCTAAAGGAG
AATTTAAGGATGTTTGAATTAGTTCAGAAACATCCATCACACTGGCCTCCCTTTGTACCTCCAGCCAAGCCAGAA
GTGACAACCACTGGGGCAGAATTCATTGACTCTACTGAGCAACTGGAGGAGTTTGATCTGGAGGAAGATTTTGAG
ATTCTGAGTGTGTAGAATCCTGGGAACCTCAACTTGAAGGTCTG

6768/6881

FIGURE 6252

MESVLSKYEDQITIFTDYLEEYPDTDELVWILGKQHLLKTEKSKLLSDISARLWFTYRRKFSPIGGTGPFSSDAGW
GCMLRCGQMMLAQALICRHLGRDWSWEKQKEQPKEYQRILQCFLDRKDCCYSIHQMAQMGVGEKSGIGEWFGPNT
VAQVLKKLALFDEWNSLAVYVSM DNTVVIEDIKKMCRVLP LSADTAGDRPPDSL TASNQSKGTSAYCTAWKPLLL
IVPLRLGINQINPVYVDAFKECFKMPQSLGALGGKPNNAYYFIGFLGDELIFLDPHTTQTFVDTEENGTVNDQTF
HCLQSPQRMNINLNDPSVALGFFCKEEKDFDNWCSLVQKEILKENLRMFELVQKHP SHWPPFVPPAKPEVTTTGA
EFIDSTEQLEEF DLEEDFEILSV

6769/6881
FIGURE 6253

CTTTCCTCTCCCAACATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGAT
GACCTGGAAGGAGATGTTTCGACAACCTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGT
TCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCC
TACACTGCTTTTCTAGGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTGAGGATTAAAT
ATCAGTGCAGTGCGTTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAG
GACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTT
GCTGATCAAGCACAGGATAAAGACAGGGATGATCGTTCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACA
GATACGGACTGGAGGGCTTGTCTGCTACAGACAGCTTTGATGACTAGAAGAGGTGATGATAGCTTTGGAGACAA
GTATGATTCCCGATAGGCAGTGGCAGAAGAGCATTGTCAGCGGGTATCGCAGGGATGATGACTACAGAGGAGG
CGGGGACCGCTATGAAGACTGATATGACAGACGGGATGA

6770/6881

FIGURE 6254

MAASAKKKKNGKGTISLTDFLAEDGGTGGGSTYVSKPVSWADETDDLEGDVSTTWHSNDDDVYRAPPIDRSILPT
APRAAREPNIDRSRLPKSPPYTAFLGNLPYDVTEESIKEFFRGLNISAVRLPREPSNPERLKGFGYAEFEDLDSL
LSALSLNEESLSNRRIRVDVADQALDKDRDDPPFGRDRNRDSDKTDTDWRRARPATDTFDDYPPRRGDDSF GDKL

6771/6881
FIGURE 6255

CTTTCCTCTCCCAACATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGAT
GACCTGGAAGGAGATGTTTCGACAACCTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGT
TCCATCCTTCCCCTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCC
TACACTGCTTTTCTAGGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAAT
ATCAGTGCAGTGCGTTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTGGTTATGCTGAATTTGAG
GACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTT
GCTGATCAAGCACAGGATAAAGAGTATCGGGATCGTTATGATTTCAGACCGGTATCGGGATGGGTATCGGGATGGC
CCACGCCGGGATATGGATGGATATGGTGGCCGGGATCGCTATGATGACCAAGGCAGCAGAGACTATGATAGAGGC
TATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTGTCAGCGGGTATCGCAGGGATGATGACTACAGAGGAGGC
GGGGACCGCTATGAAGACTGATATGACAGACGGGATGATCGGTCGTGGAGCTCCAGAGATGATTACTCTCGGGAT
GATTATAGGTGTGATGATAGACGTCCCCCCCCAAAGACCCAAACTGAATCTAAAGCCTTGGAGTACTCTTAAGCAA
GATGATTCCTCTGCTAGTACCTCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCTGTTG

6772/6881

FIGURE 6256

ATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTTTCTGGCTGAGGATGGG
GGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGATGACCTGGAAGGAGATG
TTTCGACAACCTTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGTTCCATCCTTCCCACTG
CTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCCTACACTGCTTTTCTAG
GAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAATATCAGTGCAGTGC GTT
TACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAGGACCTGGATTCCCTGC
TCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTTGCTGATCAAGCACAGG
ATAAAGACAGGGATGATCGTTCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGATACGGACTGGAGGG
CTTGCTCTGCTACAGACAGCTTTGATGACTAGAAGAGGTGATGATAGCTTTGGAGACAAGTATCGGGATCGTTAT
GATTGACACCGGTATCGGGATGGGTATCGGGATGGCCCACGCCGGGATATGGATGGATATGGTGGCCGGGATCGC
TATGATGAQCAAGGCAGCAGAGACTATGATAGAGGCTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTGTC
AGCGGGTATCGCAGGGATGATGACTACAGAGGAGGCGGGGACCGCTATGAAGACTGATATGACAGACGGGATGAT
CGGTGCTGGAGCTCCAGAGATGATTACTCTCGGGATGATTATAGGTGTGATGATAGACGTCCCCCCCCAAAGACCC
AAACTGAATCTAAAGCCTTGGAGTACTCTTAAGCAAGATGATTCCCTCTGCTAGTACCTCCCACTCGAGCT
GCTTCTATCTTTGGAGGGGCAAAGCCTGTTGACACAGCTGCTAGAGAAAGAGAAGTAGAAGAACGGCTACAGAAG
GAACAAGAGAAGTTGCAGCGTCAGCTGAGTGAGCCAAAACCTAGAACGACGGCCTCGGGAGAGACACCCAAGCTGG
CGAAGTGAAGAAACTCAGGAACGGGAACGGTCAAGGACAGGAAGTGAGTCATCGCAGACTGGGACCTCCACCACA
TCTGGCAGAAATGCACGAAGGAGAGAGAGTAAGAAGTCTCTAGAAAATGAAACACTCAATAAGGAGGAAGATTGC
CACTCTCCAACCTTCTAAACCTCCCAAACCTGATCAGCCCCTAAAGGTAATGCCAGCCCCTCCACCAAAGGAGAAT
GCTTGGGTGAAGCGAAGTTCTAACCCTCCTGCTCGATCTCAGAGCTCAGACGCAGAGCAGCAATCCCCTACAAGT
GGTGGGGGAAAAGTAGCTCCAGCTCAACCATCTGAGGAAGGACCAGCAAGGCAAGATGAAAATAAAGTAGATGGG
ATGAATGTCCCAAAAGGCCAAACTGGGAACCTTAGCCGTGGTCCAGGAGACGGAGGGAACAAAGACCACTGGAAG
GAGTCAGATAGGAAAGATGGCAAAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAGGAAAAT
CCAGCTTCCAAGTTTCAAGTCTGCAAGCAACTATGCTGCTCTCTTTGATGGTGAAGATGAAAATGAGGGAGAAGA
TTATGCCGAATAG

6773/6881
FIGURE 6257

AAAGTTGCTAGCTGGGGGCAGAGACGGCCACGCGGTTGCAGGAGTAAGAGATCCCTCTGTGGCGAATTGGCCAAC
GGTCCTTTCAACCCTGCCTCGTTGGTGGCCACTGGAGAAGCGCGGGGGGCTCCCCCAGACAGCCGTGGGGACAA
GTIAGAGCCAGCACTTTACCCCGGGCCTTGCGTGTAGCTTCCCCCTCCCCTACTCTCGGTGCCCTGGTGTCTGGAG
GGGGGTGTGGGGGTGTGCCCCGCTTACATGGTCCACCACCCGGGCAACCCTCTGGGCTTGTGTTCCATCTCACT
CTTGCTTCTCTGACTGTGGTCAAGGGGAACCACTGCATCATGTTCCCGGTATAGCTACCAGAGTCTCCTGGACTGG
CTCTATGGGGGCGTGGACCCAGTTTTGCAGGCAATGGGGGCCCCGACTGTGCTGCCTTCCTCTCTTGGCAGCAG
CGGCTGCTGGAAAGTGTGGTGGTCTGACCCTGGCTCTGTTGGAGATCCTGGTGGCCCTGCGGCACATCCTGAGG
CAGACGAAGGAGGACGGTAGGGGTAGCCCTGGCAGCCAGCCAGAGCAGGTGACCCAGCGGCCAGAGGAAGGCAAG
GAGAGCCTGAGCAAGAATCTGCTCTTAGTAGCCCTGTGCCTGACCTTCGGGGTGGAGGTGGGCTTTAAGTTCGCC
ACCAAGACCGTCATCTACCTGCTCAACCCCTGTACCTGGTACCATGATGCATCTCCCCTTTGAATTGGAGATT
TACTACATTAGCATGTTATGCTCTACGTGGTACCCATCTACCTGCTTTGGAAAGGAGGTGCTTACACTCCAGAG
CCCCTCAGCAGTTTCCGGTGGGCTCTTCTCTCAACTGGCCTCATGTTCTTTTATCACTTCAGCGTCTTGAGATC
CTCGGCCTGGTCAACGAAGTGAATTTGAACAACATGCTGTGTCCGGCCATCTCAGACCCATTCTACGGCCCCCTGG
TATCGCATCTGGGCCTCGGGACACCAGACTCTCATGACCATGACCCACGGGAAGCTGGTCATCCTGTTCTCÀTAC
ATGGCTGGGCCCCCTTGTGTAATATCTGCTGGATTGTGCTCCGGCTTCCAGCCAAGAAAATAGACTGAAGGTGCTTA
TTTTTTTTTTTTTCTCCCTGAGGAAGCAAGTCGTGACTTGACTTGAGAAACACCCAGTTCTTGATAAAATCATG
GGAGAGGGCAGTAGGATGTTTGGTGTATTTCTTTTTCTCCTTTCTGTCCCTTTCTTCTACCACTCTTCCTTTCC
CAGCTCTTCCCCCTACGATGTCTCCTTGAGCCTGGGGTGTAGTGTGCGGCGCTGGATTTTCTCCTTCCCTTTGG
CTCTCTCCTCAAACCTTCATCGCATTCATAGAAGCTGCTTGAGGGTGCCTGGGCTAACCAGGGGTGATCGGCGAAC
TTTACCGTACAGTACCTCAGTCTAGCTGTCAGATCACCCCTTTTGCTGTAGCCTCTGTTGAGGTTTTTATATTTG
TGATCATTGGTAATTCAGTGTCTATGAAGTGGGCACAGCTCCCCACAGAGAGCAAGTTGTCAGCAGGTCTCTGT
GCACTGGTATTGGGGCAGGGCAGTGCCCTGGGGGTAAAGCTAGGTGGCTCAGGGAGTGGCAGAAGGGCCATTTTTT
CCTCTGCCAAAAGACTTCCTTGGATTGTAGATGTGACCCAGAGTCTCTGTCCCTCCTGAAGAGGATTTTCT
TTACTGGTTTCTACTGAAGGGGAGGTAGGGGAGGAGGAAAAAAGGACCATGTGTGATGCTGTTAGACAAGACACT
GACGCTGATTATGGAGGGTCTCCTGCAGGCCCTTGTGGGCTCCTTGGCAAGGCCCCAGGCTGGGAAGGAGCTCCC
CCCACTGCCCATCCTGCCCCGCTTTGTGGCGGGTAGAGTCAGTGACAGGGAGGCAGCCCTCCTTTTGTGTATATAG
AGTGAGCTGATTTGGGCTCAGGAAAACCTAGTCGCTTGTGCTCTCGTCTGTGACATTTTTGTACACTGGTTTGC
TACTCATGGCAAGAAACAGACAAAGCCCCATGAAAAATAAAACAAAACAAAAGTCATTTCAAACAAAGCTGTTGT
TTTGAAAACCTCTTGCTTTCTTTTGGTGTCCATTTTGTGTTCTATTTTAAAGAATCTTTCATTTATATTGGTGTTA
TTGTAGTGAAGAGAATGTGATAGGCTGATCTGTAATGGTTCCTGTGTCAGGAGCTTAGCAAATGCCTCTGCCCCCTCT
TCCCCTACCCCTGTCTTCTCCTCAGTTCCCAGCTGGGATTGCTATGCACTGGGCAGACCCGTCAGTGTCTCCCCCTG
AACCCCCACACAGTGGCTTCCCTTAGAACCAGTCTTTGTACTCTCCCTAAACAGCAGCAGGCTTAGGATTTTTGT
CAGGCTGGTTCTTGCGTGTCTGTGCCCCCACCAGTTTGCTCACCTCTTGGGGCATTTTGTAAATGTGTTTTCTCT
GTCTTGTAACCTTTTGATTGTACCGAAATGGTATCTGCAGTCGCCTTTGGAAATAAATGGTCATTAATTTGTG
TACTTAGCATTCTGAAAAAAAAAAAAAAAAAAAAA

6774/6881
FIGURE 6258

MSRYSYQSLLDWLYGGVDP SFAGNGGPDCAAFLSWQQRLLSVVLT LALLEILVALRHILRQTKEDGRGSPGSQ
PEQVTQRPEEGKESLSKNLLLVALCLTFGVEVGFKFATKTVIYLLNPCHLV TMMHLPFELEIYYIQHVMLYVVP I
YLLWKGGAYTPEPLSSFRWALLSTGLMFFYHFSVLQILGLVTEVNLNNMLCPAISDPFYGPWYRIWASGHQTLMT
MTHGKLVILFSY MAGPLCKYLLDLLRLPAKKID

6775/6881
FIGURE 6259

ATGCTGTATGAATTCCAAACTGTTGCTTCACACCCAATGTCAGGATACTCAACCATGATTGGAATCAATAAACTA
CAGGACTTCTTGCCACGTGCGCCTTCAAAACGGTAAGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGG
CTGAGAGGCGGCGGGAGAGATGCCCATGAACTCAAGTACCCGGACACGCCCTCCACTTCTACCACCACGAGTAAC
ACCGCCCCACGGGACCGCTCTCGAGGTCCCCAAGCCAAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGCT
TCCTGTCCGGGAACGGCCCGGCGTCTGGCTGTCCAGCTAGTCCTGGCGCCTCTCTCTGGGGCTTCCACCGCCCG
ACCCGCGGCGGAGCCTGCTTCTCTCGGACCTCCAGAGACCTCGGATCCGTCCGAGCACCTGCCCTAGTCCTGCC
TGGTCCCCCAGGACAGTCCCAAGCCACTCCTCCCCAGGCGAGCACAGCGAAGGCACCGGCAAGGGGCTGGGGGAA
GAGCCACGCCAGCCTACGTACGCAGGAAGGGAGCCAGTGGCCACCCCAAACACACCTCTCCTCCTCACACCTG
GCCTACGTCCAACCTCCACGGCTCTACCCAGAAGGCTGCACGACTTCTTGCCACGTGCGCCTTCAAAACGGTA
AGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGCGGCGGGAGAGATGCCCATGAACTCAAG
TACCCGGACACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCCACGGGACCGCTCTCGAGGTCCCCAAG
CCAAGGCAGAGTCCGACGGGTCTTCTTCTGGGTGCCCCCGGCTTCCCGGACTCCAGCAGGCCTGGGAAGGCC
CGGGCCCCCTTAGCCGATGCCAGAGAGTCTCCATTCTCAAGCTTTGCCACCGAACTCATCGGTGCGACGCAAG
GAGGAACGCCCCGGCGCCGGCCAGCAGCGGCGGGCACCGGCGCCAATGGCCACGGAATCAGCACTGGCAGTCGG
CCCTCCTCACACCGCAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGGGCCGAGGACCCAGCTAGAGCCGTCACCC
CGGTTGCTCCACGGGAAGGGGCACCAGGCAAACCTGCCCAAGGCCCCGAGCCAGGCTCCCTGGCGGAGGCCTCC
GCTGGTCCCGCCAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGCTTCTGTCCGGGAACGGCCCGGCGTCC
TGGCTGTCCAGCTAG

6776/6881
FIGURE 6260

MPMNSSTRTRPPLLPPRVTPPPRDRSRGPPSQGRKEERPGAGQORRAPAPMATELSTGSRPSSHRRRAVWPTEPP
GPRTQLGRHPGCSHGKGHQANCPRPRAQAPWRRPPLAPEPWLPVRERPVGLAVQLVLAPLSGASTARPRGGACFS
RTSRDLGSVRAPALVLPGPPGQSQATPPQASTAKAPARGWGKSPRQPTSRRK GASGHPKHTSPPH TWPTSNSPRL
YPEGCTTSCPRAPSKR

6777/6881
FIGURE 6261

ATGCCCCGCGGCCAACTTTCTTCCTTGGACCCACAAGGAGGAACGACCCGGGTGCCGGCAAGAAGCCGCGGGGAA
GCCCCGCGCCATTGGCACACGGAATCTCGGCAATTGCCAATTCGGCCTACTTACAAACCGCAAGGCTTGCCATTTT
GGCCCAACGGAACCTTCCCGGCCCAAGAACCCAGCTTGGCCCTTAACCCCGTTTGCTTCCACGGGAAGGGGCAA
CCAAGCAAAATGCCCAAGGCCCCCGAGCCAGGGGTCCCTGCCGAAGGCCTCCGCTGGTCCCGCCCAGATCATGG
GCGCCACCAGGCTCCCGAGCCGTGGCTTCCTGTCCGGGAACGGCCCCGGCGTCCTGGCTGTCCAGCTAGTCCTGGC
GCCTCTCTCTGGGGCTTCCACCGCCCGACCCCGCGGCGGAGCCTGCTTCTCTCGGACCTCCAGAGACCTCGGATG
CGTCCGAGCACCTGCCCTAGTCCTGCCTGGTCCCCCAGGACAGTCCCAAGCCACTCCTCCCCAGGCGAGCACAGC
GAAGGCACCGGCAAGGGGCTGGGGGAAGAGCCCACGCCAGCCTACGTACGCAGGAAGGGAGCCAGTGGCCACCC
CAAACACACCTCTCCTCCTCACACCTGGCCTACGTCCAACCTCTCCACGGCTCTGCCCAGAAGGCTGCACGACTTC
TTGCCCACGTGCGCCTTCAAAACGGTAAGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGC
GGCGGGAGAGATGCCCATGAACTCAAGTACCCGGACACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCC
ACGGGACCGCTCTCGAGGTCCCCCAAGCCAAGGGCAAGGGCCTGCGCACCCCCAAAGACAAGCGGGGTCCCCGGA
AGGCCCCCAGGCAGAAATGAGCACCACGGGGAACGGCCCGCTCCAAGACAACCTCGGGGACATGGACACAACAA
GACAGGGTGGCAAGTCTCAACAAGGCGGGTGC GCGGCGTCTGAAGGCGTGCAGTGTGGCCGACGGAGCCTCCCCG
GCCGAGGACCCAGCTAGGCCGTACCCCGGTGCTCCCACGGGAAGGGGCACCAGGCAAACTGCCCCAAGGCCCCG
AGCCCAGGCTCCCTGGCGGAGGCCTCCGCTGGTCCCGCCAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGC
TTCTGTCCGGGAACGGCCCGCGTCCTGGCTGTCCAGCT**AG**

6778/6881
FIGURE 6262

MPRGQLSSLDPQGGTTRVPARSRREARAIGTRNLGNCQFGLLTNRKACHFGPTEPSRPKNPAWPLTPVCFHGKGQ
PSKMPKAPEPRGPCRRPPLVPPRSWAPPGSRAVASCPGTARRPGCPASPGASLWGFHRPTPRRSLLLSDLQRPRM
RPSTCPSPAWSVRTVPSHSSPGEHSEGTGKGLGEEPTPAYVTQEGSQWPPQTHLSSSHLAYVQLSTALPRRLHDF
LPTCAFKTVRAATERVRHGADRLRGGRDAHELKYPDTPSTSTTTSNTAPTGPLSRSPKPRARACAPPKTSQVPG
RPPGRNEHHGERPASKTTSGTWTQQDRVASLNKAGARRLKACSVADGASRAEDPARPSRLLPREGAPGKLPKAP
SPGSLAEASAGPAQIMAAATRLPSRGFLSGNGPASWLSS

6779/6881
FIGURE 6263

CCCTCACCTCCCAGGAATGGGGAGGGGGCATCCTACCCCATATCTGAGGTGCGACTGCGGGACGTAGAGCGGACT
GGGCCTTTCCCGTTGGCGCGTGGCCTCAATCAGGACTTCTTGCCACGTGCGCCTTCAAACGGTAAGAGCTGCA
ACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGCGGCGGGAGAGATGCCCATGAACTCAAGTACCCGGAC
ACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCACGGGACCGCTCTCGAGGTCCCCAAGCCAAGGACG
CAAGGAGGAACGCCCCGGCGCGCGGCCAGCAGCGGCGGGCACCGGCCCAATGGCCACGGAACCTAGCACTGGCAG
TCGGCCCTCCTCACACCGCAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGGGCCGAGGACCCAGCTAGGCCGTCA
CCCCGTTGCTCCACGGGAAGGGGCACCAGGCAAACTGCCCAAGGCCCGAGCCCAGGCTCCCTGGCGGAGGCC
TCCGCTGGACTTCTTGCCACGTGCGCCTTCAAACGGGCAAGGGCCTGCGCACCCCCAAAGACAAGCGGGGTCC
CCGGAAGGCCCCCAGGCAGAAATGAGCACCACGGGGAACGGCCCCGCTCCAAGACAACCTCGGGGACATGGACAC
AACAAGACAGGGTGGCAAGTCTCAACAAGGCGGGCTGGCGTGGGCTCTTCCCCAGCCCCCTTGCCGGTGCTGCCA
CGTGAGAAGGGCCCGGTGCCGTCCCCTATTCCGGAATTGTGGGTTACCTGAAGTTTGAGGCCAAACCCCCA
GCGGTCAGTGGGACGCCAGTCGCCTTTGACCTCTTGGTCAAGCTGGCCTTGCCGTGA

6780/6881
FIGURE 6264

MPMNSSTRTRPPLLPPRVTPPPRDRSRGPPSQGRKEERPGARPAAGTGPMATELSTGSRPSSHRRRAVWPTEPP
GPRTQLGRHPGCSHGKGHQANCPRPRAQAPWRRPPLDFLPTCAFKTGKGLRTPKDKRGPRKAPRQK

6781/6881
FIGURE 6265

AGGGAGCGCACGACGTGCGCGCACCCCTCTGCCCTGGTCCATCGCTGCCGCCTCCTTCTTCTGCAGCTCCTGGTGC
TGCTTGTGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAACGGCAGCTGAGGAGATTCCGGCGCTTGCC
ATGGCCGACGAAAAACCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAG
GATGGTTCTGTGGTGCAGTTTAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGA
CAGGGATTGTCAGTGAGGCAGATCAGATTCCGATTTCGACGGGCAACCAATCAATGAAACAGACACACCTGCACAG
TTGGAAATGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTG
CTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTCAATTTGGTTCCAC
CACATCCTGACTACTACCGTATAGTTTTCTCTATTCTTTTCAATTTCCCCCTTCCCTATTCTTTATTGTACATAAA
GTAAGTGGTATATGTACACAAGCATATTGCATTTTTTTTTAACTAAACAGCCAATGATATGTTTTGATTGACATCA
AGTGGAGATGGGATGGGGAAAAATACTGATTCTGTGAAAATACCCCCTTTCTCCATTAGTGGCATGCTCATTTCAG
CTCTTATCTTTATATTCCAGTAAGTTATTTTGCTCTCACTGTTTTAACAAAAACAACAACAACAACATAAAA
ATCCTTGATACCTTTTTTCAATTGGAGAATTTTAATGATTTTCATTTATCATTGTAAAACCAAGGACAATTTTAT
AACTTTTTTCGTACATAGCTGCTACATGTAGGGCAATCTGTCTTTAAGTAGGGATAAATTACTCTAAAAACAAAAA
GAATCCTAGATACTTTTCCCTTCAAGTCAAGCGTCTTGTTTAAATAAACTGCTTGTTTAAATG

6782/6881
FIGURE 6266

MADEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSVRQIRFRFDGQPINETDTPAQ
LEMEDEDIDVFQQQTGGVY

6783/6881

FIGURE 6267

GCGCACCCCTCTGCCCTGGTCCATCGCTGCCGCCTCCTTCTTCTGCAGCTCCTGGTGCTGCTTGTGTGCTCGTTTG
GTGCGGACCTGGTACCTCTTTTGTGAAACGGCAGCTGAGGAGATTCCGGCGCTTGCCATGGCCGACGAAAAACCC
AAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGATGGTTCTGTGGTGCAG
TTTAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGACAGTGGAAATGGAGGATG
AAGATACAATTGATGTGTTCACACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTTACTCCAGAA
CTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAACTGCAATTTGGTTCCACCACATCCTGACTACTA
CCGTATAGTTTTCTCTATTCTTTTCAATTTCCCCCTTCCCTATTCCCTTATTGTACATA

6784/6881
FIGURE 6268

CACAACAAACAGGCCACTGAGAATACAAAGGAGGAAGTGAAAACCTATGTGAGAAGATGGCCCAGTCTGATGCTAA
AAAGTTTGTGGAAAGCCAGCCTAAAAAGGACACACCACGGAAAGAGAAGCGTTCACGGGAAGAGAAGCAGAAGCC
CCAGGCTGAGCAGGAGGAGAAAAAGGCGGCTGCCCCCTACTCCTGAGGAGGAGATGGATGAATGTGAGCAGGCGCT
GGCCGCTGAGCCCAAGGCCAAGGACCCCTTTGCTCACCTGCCCAAGAGTACCTTTGTGTTGGATGAATTGAAGCT
CAAGTACTCCAATGAGACACACTCTCTGTGGCACTGCCATATTTCTGGGAGCACTTTGATAAGGACTGCTGGTCC
CTGTGGTACTCAGAGTGTGCTTCCCTGAAGAATTCATCAGACCTTCATGAGCTGCAATCTCATCACTGGAATG
TTCCAGTGAAGTGGACAAGCTGAGGAAGAATGCCTTCGCCAGTGTATCCTCTTTGGAACCAACAATATCAGCTCC
ATTTCTGGAGTCTGGGTCTTCCGAGGCCAGGAGCTTGCCCTTCCACTGAGTCCAGATTGGCAGGTGGGCTATGAG
TCATACACATGGCAGAACTGGATCCTGGCAGCGAGGAGACCCAGATGCTGGTTCGAGAGTACTTTTCCTGGGAG
GG

6785/6881
FIGURE 6269

ATCTTTAAATGGATGAGATGGCTACCACTCAGATTTCCAAAGATGAGCTTGATGAACTCAAAGAGGCCTTTGCAA
AAGTTGATCTCAACAGCAACGGATTCATTTGTGACTATGAACTTCATGAGCTCTTCAAGGAAGCTAATATGCCAT
TACCAGGATATAAAGTGAGAGAAATTATTCAGAACTCATGCTGGATGGTGACAGGAATAAAGATGGGAAAATAA
GTTTTGACGAATTTGTTTATATTTTTCAAGAGGTAAAAAGTAGTGATATTGCCAAGACCTTCCGCAAAGCAATCA
ACAGGAAAGAAGGTATTTGTGCTCTGGGTGGAACCTTCAGAGTTGTCCAGCGAAGGAACACAGCATTCTTACTCAG
AGGAAGAAAAATATGCTTTTGTTAACTGGATAAAACAAAGCTTTGGAAAATGATCCTGATTGTAGACATGTTATAC
CAATGAACCCTAACACCGATGACCTGTTCAAAGCTGTTGGTGATGGAATTGTGCTTTGTAAAATGATTAACCTTT
CAGTTCCTGATACCATTTGATGAAAGAGCAATCAACAAGAAGAACTTACACCCTTCATCATTGAGGAAAACCTTGA
ACTTGGCACTGAACTCTGCTTCTGCCATTGGGTGTCATGTTGTGAACATTGGTGCAGAAGATTTGAGGGCTGGGA
AACCTCATCTGGTTTTGGGACTGCTTTGGCAGATCATTAAAGATCGGTTTGTTCGCTGACATTGAATTAAGCAGGA
ATGAAGCCTTGGCTGCTTTACTCCGAGATGGTGAGACTTTGGAGGAACCTTATGAAATTGTCTCCAGAAGAGCTTC
TGCTTAGATGGGCAAACCTTCATTTGGAAAACCTCGGGCTGGCAAAAAATTAACAACCTTTAGTGCTGACATCAAGG
ATTCCAAAGCCTATTTCCATCTTCTCAATCAAATCGCACAAAAGGACAAAAGGAAGGTGAACCACGGATAGATA
TTAACATGTCAGGTTTCAATGAAACAGATGATTTGAAGAGAGCTGAGAGTATGCTTCAACAAGCAGATAAATTAG
GTTGCAGACAGTTTGTACCCCTGCTGATGTTGTGCTAGTGGAAACCCCAAACCTCAACTTAGCTTTCTGCTGCTAAC
TGTTTAATAAATACCCAGCACTAACTAAGCCAGAGAACCAGGATATTGACTGGACTCTATTAGAAGGAGAACTC
GTGAAGAAAGAACCTTCCGTAACCTGGATGAACCTCTCTTGGTGTCAATCCTCACGTAAACCATCTCTATGCTGACC
TGCAAGATGCCCTGGTAATCTTACAGTTATATGAACGAATTAAGTTTCTGTTGACTGGAGTAAGGTAAATAAAC
CTCCATACCCGAAACTGGGAGCCAACATGAAAAAGCTAGAAAACCTGCAACTATGCTGTTGAATTAGGGAGCATC
CTGCTAAATTCTCCCTGGTTGGCATTGGAGGGCAAGACCTGAATGATGGGAACCAAACCTGACTTTAGCTTTTAG
TCTGGCAGCTGATGAGAAGATATACCCTCAATGTCCTGGAAGATCTTGGAGATGGTCAGAAAACCAATGACGACA
TCATTGTGAACTGGGTGAACAGAACGTTGAGTGAAGCTGGAAAATCAACTTCCATTGAGAGTTTTAAGGACAAGA
CGATCAGCTCCAGTTTGGCAGTTGTGGATTTAATTGATGCCATCCAGCCAGGCTGTATAAACTATGACCTTGTGA
AGAGTGGCAATCTAACAGAAGATGACAAGCACAATAATGCCAAGTATGCAGTGTCAATGGCTAGAAGAATCGGAG
CCAGAGTGTATGCTCTCCCTGAAGACCTTGTGGAAGTAAAGCCCCAAGATGGTCATGACTGTGTTTGCATGTTTGA
TGGGCAGGGGAATGAAGAGAGTGTAAAAATAACCAATCTGAATAAAACAGCCATGCTCCAGGTGCATGATTCGCA
GGTCAGCTATTTCCAGGTGAAGTGCTTATGGCTTAAGGAACTCTTGGCCATTCAAAGGACTTTTCATTTTGATTA
ACAGGACTAGCTTATCATGAGAGCCCTCAGGGGAAAGGGTTTAAGAAAAACAACCTCCTCTTTCCCATAGTCAGAG
TTGAATTTGTCAGGCACGCCTGAAATGTGCTCATAGCCAAAACATTTTACTCTCTCCTCCTAGAAATGCTGCCCTT
GACATTTCCATTGCTGTATGTTATTTCTTGCTCTGTTATCTTTTGCCCTCTTAGAATGTCCCTCTCTTGGGACT
TGCTTAGATGATGGGATATGAATATTATTAGACAGTAATTTTGCTTTCCATCCAGTATGCTAGTTCTTATTCGAG
AACTATGGTCAGAGCGTATTTGGATATGAGTATCCTTTGCTTATCTTTGTAGTACTGAAAATTTGCCGAAGTAAC
TGGCTGTGCAGAATGTAATAGAAGCTTTTCTTATTTCTTTTATTCTTAAGATCAGTATCTTTTACAGTATCTTT
CTACATGATCCTTTTTTTGTACATTTAAGAATATTTTGATTATATTAAACAAGACTGCTGATTTTGCTACTTTTTT
TAAGGGGTCTTCAAGTAAGTAAAAACATACATCGTAGCTAGAAGAAAAATGTACCTTAAATTTGCATCTTCCCTCT
CATACCCAAGCTGTAAACAATTGAAATATTTTGTCTTAAATCACTTGGTTCAATACATGCTTATTTGTTTTAAAA
CCTGTATCATCAAACCTCTCTCTCTAAATTTAAAAATGCTGTTGAATATGATACTTTTGAGGAGAGAGTGTGCTCAG
AACTTAGACGGGATTTGGTAGGCCAAGTATGCTAAGTGTACAATATATTTTTTAATTTTACACCTGAAACAAAGA
AATGTGGTCACTAAAAATAAAAGTATATGTAGGAATTAATGTACTCTTGCTTTGTCAAGCTGTTTGCTATAGT
TTCCAAGGTATTATGTTACTCTAACTCTGAAAAGTGATGTAATCTGGTAGCAATGTAGTAGTTCAAATAAAGGCA
TTTACATAAT

6786/6881
FIGURE 6270A

TGCCAAGGCTCCAGCCCGGCCGGGCTCCGAGGCGAGAGGCTGCATGGAGTGGCCGGCGCGGCTCTGCGGGCTGTG
GGCGCTGCTGCTCTGCGCCGGCGGGCGGGGGCGGGGGCGCCGCGCCTACGGAACTCAGCCACCTGTGAC
AAATTTGAGTGTCTCTGTTGAAAACCTCTGCACAGTAATATGGACATGGAATCCACCCGAGGGAGCCAGCTCAAA
TTGTAGTCTATGGTATTTTAGTCATTTTGGCGACAAACAAGATAAGAAAATAGCTCCGGAACTCGTCGTTCAAT
AGAAGTACCCCTGAATGAGAGGATTTGTCTGCAAGTGGGGTCCCAGTGTAGCACCAATGAGAGTGAGAAGCCTAG
CATTTTGGTTGAAAAATGCATCTCACCCCCAGAAGGTGATCCTGAGTCTGCTGTGACTGAGCTTCAATGCATTTG
GCACAACCTGAGCTACATGAAGTGTTCCTTGGCTCCCTGGAAGGAATACCAGTCCCGACACTAATACTACTCTCTA
CTATTGGCACAGAAGCCTGGAAAAAATTCATCAATGTGAAAACATCTTTAGAGAAGGCCAATACTTTGGTTGTTT
CTTTGATCTGACCAAAGTGAAGGATTCCAGTTTTGAACAACACAGTGTCCAAATAATGGTCAAGGATAATGCAGG
AAAAATTAAACCATCCTTCAATATAGTGCCTTTAACTTCCCGTGTGAAACCTGATCCTCCACATATTAACCACT
CTCCTTCCACAATGATGACCTATATGTGCAATGGGAGAATCCACAGAATTTTATTAGCAGATGCCTATTTTATGA
AGTAGAAGTCAATAACAGCCAACTGAGACACATAATGTTTTCTACGTCCAAGAGGCTAAATGTGAGAATCCAGA
ATTTGAGAGAAATGTGGAGAATACATCTTGTTCATGGTCCCTGGTGTCTTCTGATACTTTGAACACAGTCAG
AATAAGAGTCAAAACAAATAAGTTATGCTATGAGGATGACAACTCTGGAGTAATTGGAGCCAAGAAATGAGTAT
AGGTAAGAAGCGCAATTCCACACTCTACATAACCATGTTACTCATTGTTCCAGTCATCGTCGAGGTGCAATCAT
AGTACTCCTGCTTTACCTAAAAAGGCTCAAGATTATTATATTCCTCCAATTCCTGATCCTGGCAAGATTTTTAA
AGAAATGTTTGGAGACCAGAATGATGATACTCTGCACTGGAAGAAGTACGACATCTATGAGAAGCAAACCAAGGA
GGAAACCGACTCTGTAGTGCTGATAGAAAACCTGAAGAAAGCCTCTCAGTGATGAGAGATAATTTATTTTACCTT
CACTGTGACCTTGAGAAGATTCTTCCCATTTCTCATTTGTTATCTGGGAACCTATTAAATGGAACTGAACTAC
TGCACCATTTAAAAACAGGCAGCTCATAAGAGCCACAGGTCTTTATGTTGAGTCGCGCACCGAAAACTAAAAAT
AATGGGCGCTTTGGAGAAGAGTGTGGAGTCATTCTCATTGAATTATAAAAGCCAGCAGGCTTCAAACTAGGGGAC
AAAGCAAAAAGTGATGATAGTGGTGGAGTTAATCTTATCAAGAGTTGTGACAACCTTCTGAGGGATCTATACTTG
CTTTGTGTTCTTTGTGTCAACATGAACAAATTTTATTTGTAGGGGAACCTCATTGTTGGGTGCAATGCTAATGTCA
AACTTGAGTCACAAAGAACATGTAGAAAACAAATGGATAAAATCTGATATGTATTGTTTGGGATCCTATTGAAC
CATGTTTGTGGCTATTAAAACTCTTTTAAACAGTCTGGGCTGGGTCCGGTGGCTCACGCCTGTAATCCCAGCAATT
TGGGAGTCCGAGGCGGGCGGATCACTCGAGGTCAGGAGTTCCAGACCAGCTGACCAAAATGGTGAAACCTCCTC
TCTACTAAAACTACAAAAATTAACCTGGGTGTGGTGGCGCGTGCCTGTAATCCCAGCTACTCGGGAAGCTGAGGCA
GGTGAATTGTTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCAGAGATCACACCACTGCACTCTAGCCTGGGTGAC
AGAGCAAGACTCTGTCTAAAAAACAAAAACAAACAAAAACAAACAAAAACCTCTTAATATTCTGGAGTCATCA
TTCCCTTCGACAGCATTTTCTCTGCTTTGAAAGCCCCAGAAATCAGTGTGGCCATGATGACAACTACAGAAAA
ACCAGAGGCAGCTTCTTTGCCAAGACCTTTCAAAGCCATTTTAGGCTGTTAGGGGCAGTGGAGGTAGAATGACTC
CTTGGGTATTAGAGTTTCAACCATGAAGTCTCTAACAATGTATTTTCTTACCTCTGCTACTCAAGTAGCATTTA
CTGTGCTTTGGTTTGTGCTAGGCCCCCGGTGTGAAGCACAGACCCCTTCCAGGGGTTTACAGTCTATTTGAGA
CTCCTCAGTTCTTGCCACTTTTTTTTTTAATCTCCACCAGTCATTTTTCAGACCTTTTAACTCCTCAATTCCAAC
ACTGATTTCCCTTTTTGCATTCTCCCTCCTTCCCTTCTGTAGCCTTTTGACTTTCATTGGAAATTAGGATGTA
AATCTGCTCAGGAGACCTGGAGGAGCAGAGGATAATTAGCATCTCAGGTTAAGTGTGAGTAATCTGAGAAACAAT
GACTAATTCTTGCAATTTTTGTAACCTCCATGTGAGGGTTTTTTCAGCATTGATATTTGTGCATTTTCTAAACAGAG
ATGAGGTGGTATCTTACGTAGAACATTGGTATTCGCTTGAGAAAAAAGAATAGTTGAACCTATTTCTCTTTCT
TTACAAGATGGGTCCAGGATTCCTCTTTTCTCTGCCATAAATGATTAATTAATAGCTTTTGTGTCTTACATTGG
TAGCCAGCCAGCCAAGGCTCTGTTTATGCTTTTGGGGGGCATATATTGGGTTCATTCTCACCTATCCACACAAC
ATATCCGTATATATCCCTCTACTCTTACTTCCCCCAAATTTAAAGAAGTATGGGAAATGAGAGGCATTTCCCCC
ACCCCATTTCTCTCTCACACACAGACTCATATTACTGGTAGGAACTTGAGAACTTTATTTCCAAGTTGTTCAA
ACTCTCTACAGGTTTGGGTACAAGTGGCAACCTGCTTCCATGGCCGTGTAGAAGCATGGTGCCCTGGCTTCTCTG
AGGAAGCTGGGGTTCATGACAATGGCAGATGTAAAGTTATTCTTGAAGTCAGATTGAGGCTGGGAGACAGCCGTA
GTAGATGTTCTACTTTGTTCTGCTGTTCTCTAGAAAGAATATTTGGTTTTCTGTATAGGAATGAGATTAATTCC
TTTCCAGGTATTTTATAATTCTGGGAAGCAAAACCCATGCCTCCCCCTAGCCATTTTACTGTTATCCTATTTAG
ATGGCCATGAAGAGGATGCTGTGAAATTCCCAACAAACATTGATGCTGACAGTCATGCAGTCTGGGAGTGGGGAA

6787/6881
FIGURE 6270B

GTGATCTTTTGTTCCTCCTCTTTTAGCAGTAAAATAGCTGAGGGAAAAGGGAGGGAAAAGGAAGTTATGG
GAATACCTGTGGTGGTTGTGATCCCTAGGTCTTGGGAGCTCTTGGAGGTGTCTGTATCAGTGGATTTCCCATCCC
CTGTGGGAAATTAGTAGGCTCATTTACTGTTTTAGGTCTAGCCTATGTGGATTTTTTCCTAACATACCTAAGCAA
ACCCAGTGTGAGGATGGTAATTCTTATTCTTTTCGTTTCAGTTAAGTTTTCCCTTCATCTGGGCACTGAAGGGATA
TGTGAAACAATGTTAACATTTTTGGTAGTCTTCAACCAGGGATTGTTTCTGTTTAACTTCTTATAGGAAAGCTTG
AGTAAATAAATATTGTCTTTTTGTATGTCAAGCGGGCCGCCACCGCGGTGGAAACTCCAGCTT

6788/6881
FIGURE 6271

MEWPARLCGLWALLLCAGGGGGGGGAAPTETQPPVTNLSVSVENLCTVIWTWNPPEGASSNCSLWYFSHFQDKQD
KKIAPETRRSIEVPLNERICLQVGSQCSTNESEKPSILVEKCISPPEGDPESAVTELQCIWHNLSYMKCSWLPGR
NTSPDTNYTLYYWHRSLEKIHQCENIFREGQYFGCSFDLTKVKDSSFEQHSVQIMVKDNAGKIKPSFNIVPLTSR
VKPDPPHIKNLSFHNDDLYVQWENPQNFISRCLFYEEVNNSQTETHNVFYVQEAKCENPEFERNVENTSCFMVP
GVLPTLNTVRIRVKTNKLCEYEDDKLWSNWSQEMSIGKKRNSTLYITMLLIVPVIVAGAIIVLLLYLKRLKIIIF
PPIPDPGKIFKEMFGDQNDLTLHWKKYDIYEKQTKETDSVVLIENTLKKASQ

6789/6881
FIGURE 6272

GACCCACGCGTCCGGGGAGGAGAAAGTGGCGAGTTCCGGATCCCTGCCTAGCGCGGCCCAACCTTTACTCCAGAG
ATC**ATGG**CTGCCGAGGATGTGGTGGCGACTGGCGCCGACCCAAGCGATCTGGAGAGCGGCGGGCTGCTGCATGAG
ATTTTCACGTCGCCGCTCAACCTGCTGCTGCTTGGCCTCTGCATCTTCCTGCTCTACAAGATCGTGC GCGGGGAC
CAGCCGGCGGCCAGCGGCGACAGCGACGACGAGCCGCCCCCTCTGCCCGCCTCAAGCGGCGCGACTTCACC
CCCGCCGAGCTGCGGCGCTTCGACGGCGTCCAGGACCCGCGCATACTCATGGCCATCAACGGCAAGGTGTTTCGAT
GTGACCAAAGGCCGCAAATTTCTACGGGCCCCGAGGGGCCGTATGGGGTCTTTGCTGGAAGAGATGCATCCAGGGGC
CTTGCCACATTTTGCCTGGATAAGGAAGCACTGAAGGATGAGTACGATGACCTTTCTGACCTCACTGCTGCCAG
CAGGAGACTCTGAGTGA CTGGGAGTCTCAGTTCACTTTCAAGTATCATCACGTGGGCAAACCTGCTGAAGGAGGGG
GAGGAGCCCACTGTGTACTCAGATGAGGAAGAACC AAAAGATGAGAGTGCCCGGAAAAATGAT**TAA**AGCATT CAG
TGGAAGTATATCTATTTTTGTATTTTGCAAAATCATTTGTAACAGTCCACTCTGTCTTTAAACATAGTGATTAC
AATATTTAGAAAGTTTGTAGCACTTGCTATAAGTTTTTTAATTAACATCACTAGTGACACTAATAAAATTAAC TT
CTTAGAATGCATGATGTGTTTGTGTGTCACAAATCCAGAAAGTGAAGTGCAGTGCTGTAATACACATGTTAATAC
TGTTTTTCTTCTATCTGTAGTTAGTACAGGATGAATTTAAATGTGTTTTTCTGAGAGACAAGGAAGACTTGGGT
ATTTCCCAAAACAGGTAAAAATCTTAAATGTGCACCAAGAGCAAAGGATCAACTTTTAGTCATGATGTTCTGTAA
AGACAACAAATCCCTTTTTTTTTCTCAATTGACTTAACTGCATGATTTCTGTTTTATCTACCTCTAAAGCAAATC
TGCAGTGTTCCAAAGACTTTGGTATGGATTAAGCGCTGTCCAGTAACAAAATGAAATCTCAAAACAGAGCTCAGC
TGCAAAAAGCATATTTTCTGTGTTTCTGGACTGCAC TGTTGTCCTTGCCCTCACATAGACACTCAGACACCCTC
ACAAACACAGTAGTCTATAGTTAGGATTA AAATAGGATCTGAACATTCAAAGAAAGCTTTGGAAAAAAGAGCT
GGCTGGCCTAAAAACCTAAATATATGATGAAGATTGTAGGACTGTCTTCCCAAGCCCCATGTT CATGGTGGGGCA
ATGGTTATTTGGTTATTTTACTCAATTGGTTACTCTCATTTGAAATGAGGGAGGGACATACAGAATAGGAACAGG
TGTTTGCTCTCCTAAGAGCCTTCATGCACACCCCTGAACCACGAGGAAACAGTACAGTCGCTAGTCAAGTGGTTT
TTAAAGTAAAGTATATTCATAAGGTAACAGTTATTCTGTTGTTATAAACTATAACCACTGCAAAAGTAGTAGTC
AAGTGTCTAGGTCTTTGATATTGCTCTTTTGGTTAACACTAAGCTTAAGTAGACTATA CAGTTGTATGAATTTGT
AAAAGTATATGAACACCTAGTGAGATTTCAAAC TTGTAATTGTGGTTAAATAGTCATTGTATTTTCTGTGAAC T
GTGTTTTATGATTTTACCTCAAATCAGAAAACAAAATGATGTGCTTTGGT CAGTTAATAAAAATGGTTTTACCCA
CTAAAAA AAAAAAAAAA

6790/6881
FIGURE 6273

MAAEDVVATGADPSDLESGLLHEIFTSPINLLLLGLCIFLLYKIVRGDQPAASGDSDDDEPPPLPRLKRRDFTP
AELRRFDGVQDPRILMAINGKVFDVTKGRKFYGPYGVFAGRDASRGLATFCLDKEALKDEYDDLSDLTAAQQ
ETLSDWESQFTFKYHHVGKLLKEGEEPTVYSDEEPPKDESARKND

6791/6881
FIGURE 6274

CCGCAGCGCCGGAGTCAAAGCCGGTTCCCGGCCAGTCCCGTCCTGCAGCAGTCTGCCTCCTCTTTCAACATGAC
AGATGCCGCTGTGTCCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGCAGCCATCTCCAAGACGGCGGTAGC
GCCCATCGAGCGGGTCAAGCTGCTGCTGCAGGTGCAGCATGCCAGCAAGCAGATCACTGCAGATAAGCAATACAA
AGGCATTATAGACTGCGTGGTCCGTATTCCCAAGGAGCAGGGAGTTCTGTCCTTCTGGCGCGGTAACCTGGCCAA
TGTTCATCAGATACTTCCCCACCCAGGCTCTTAACCTTCGCCTTCAAAGATAAATACAAGCAGATCTTCCTGGGTGG
TGTGGACAAGAGAACCCAGTTTTTGGCTCTACTTTGCAGGGAATCTGGCATCGGGTGGTGCCGCAGGGGCCACATC
CCTGTGTTTTTGTGTACCCTCTTGATTTTGCCCGTACCCGTCTAGCAGCTGATGTGGGTAAAGCTGGAGCTGAAAG
GGAATTCCGAGGCCTCGGTGACTGCCTGGTTAAGATCTACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTT
TAACGTGTCTGTGCAGGGTATTATCATCTACCGAGCCGCCTACTTCGGTATCTATGACACTGCAAAGGGAATGCT
TCCGGATCCCAAGAACACTCACATCGTCATCAGCTGGATGATCGCACAGACTGTCACTGCTGTTGCCGGGTGAC
TTCCTATCCATTTGACACTGTTTCGCCGCCGCATGATGATGCAGTCAGGGCGCAAAGGAAGTACATCATGTACAC
AGGCACGCTTGACTGCTGGCGGAAGATTGCTCGTGATGAAGGAGGCAAAGCTTTTTTCAAGGGTGCATGGTCCAA
TGTTCTCAGAGGCATGGGTGGTGCTTTTGTGCTTGTCTTGATGATGAAATCAAGAAGTACACATAAGTTATTTT
CTAGGATTTTTCCCCCTGTGAACAGGCATGTTGTATTATATAACATATCTTGAGCATTCTTGACAGACTCCTGGC
TGTCAGTTTTCTCAGTGGCAACTATTTACTGGTTGAAAATGGGAAGCAATAATATTCATCTGACCAGTTTTCTCTT
AAAGCCATTTCCATGATGATGATGATGGGACTCAATTGTATTTTTTATTTTCAGTCACTCCTGATAAATAACAAAT
TTGGAGAAATAAAAAATATCTAAAAAT

6792/6881
FIGURE 6275

GCGACCCTCTTCTTGGCGTAGAGTTTTTCAGATTGCTCTTGGGAATCATGCCGAAAGTAGTGTCTCGGTCTAGTAGT
CTGCTCTGACACTCGGGACCGGGAGGAATATGACGACGGCGAGAAAGCCCCCTCCATGTTTACTACTGTTTGTGCGG
CCAGATGGTCCTAGTGCTGGACTGCCAGTTAGAGAAATTGCCCATGAGGCCCGGGACCGGTCCCCTGTGATTGA
TGCTGCCAAACATGCCCATAGTTTTGTAAACACAGAAGATGAGGAGACTATGTATCTGCGGAGACCTGAAGGCAT
TGAACGACAGTACAGGAAGAAATGTGCAAAGTGTGGACTGCCGCTCTTCTACCAATCCCAGCCAAAGAATGCTCC
TGTTACCTTCATTGTGGATGGAGCAGTAGTCAAGTTTGGCCAGGGCTTTGGGAAAACGAACATATATACTCAGAA
ACAAGAGCCTCCTAAGAAGGTGATGATGACCAAACGGACCAAAGACATGGGCAAGTTCAGTTCTGTACCGTGTCTC
TACCATTGATGAAGAGGAAGAGGAGATTGAGGCTAGGGAAGTTGCTGACTCATATGCACAGAATGCCAAAGTGAT
TGAAAAACAGCTGGAGCGCAAAGGCATGAGCAAGAGGCGACTGCAAGAGCTGGCTGAATTGGAAGCCAAGAAAGC
GAAAAATGAAGGGGACCTTGATTGACAACCAGTTCAAATAACCAGGCCTTTTTCTAAGCCCTAGACTAGAGGCAAG
CATTTAGATCAGGAGGCAAAGTAATTTCTTGATTACATAGACGGATTCCATTTATGCCCTAGCAGAAGGCTTTA
CGTTGTTTTCCCATTGATTCTCCTACATTGAGGTCTTTAACTGAGTCCATTTAACTTGCTTTCTTTTTTTTTT
TTTTTTTTTTTTTGAGATAAAGTCTTGCTCTTTTCGCCAGGATGGAGTGCAGTGGTGGATCTCGGCTCACTGCAAC
CTCCGCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGTGCCACCAC
GCCTGGGCAACATGGTGAAACCCTGTCTCTACTAAAATACAAAAGAAATTAGCCAGGTGTGGCGGCATACCCCTG
TAGTCACGGCTACTTGGGAGGCAGAGGCAGGAGAATTGCTTGAACCTCGGGAGGTGGAGGTGCAGTGAGCTGAGA
TTGCACCACTGTACTCCAGCACTCCAGCCTGGGCGACAGAGTGAGACTCTGTCTCTACAAAAAAAAAAAAAAAAA
AAAGTAACCCAAGGGAGGGAGCTACCCTCTAGTCGGGCAGCTGATACTGCTTCCTTGATGGATACATGGGAGGG
AGACGTTATAGATTAAGAAATGATAGCAAGATAAACAAAATGATTTGTTGGGTATCTTTTACTTTACATTTGTTA
TTTGCAGAGGAGTGTTGTATATATAGATGTTATTTTATGTACACTGCTTCAATGATACCTATATCCATGTGTTT
GTATCCATGTTTTTATCCATTCAACTGTATTAAAAGGTGTTGGGACAGG

6793/6881
FIGURE 6276

GAAGAACTGGAAGTGGGCTGGCCATAGGGGGAAGCGGCGCGTTAAATCCGCCCCCTCTCCATACCCCTACTTTCAA
GGGGTGGGCGGTAGAGGGGAGGTTGGGGTTGGAGCAGCGGCGAGGGGGCCCCCTCCCTTGACCTCCCCCACC GG
ACTTGGTCGCGCCCGAAGTGTAACACTTTCTCTTTGTGCGAGGAGCTCCTCTGTTTCCTGTGCAGTAGCTCCCGT
TGCGGCGGCACCCGTGGCAGCCCTGGCGGACGCAGGAGCGATGGCAGCGACCGATATAGCTCGCCAGGTGGGTGA
AGGTTGCCGAAGTGTCCCCCTGGCTGGACATGTGGGGTTTGACAGCTTGCCTGACCAGCTGGTGAATAAGTCCGT
CAGCCAGGGCTTCTGCTTCAACATCCTGTGCGTGGGAGAGACAGGTTTGGGCAAGTCCACCCTCATGGACACCCT
GTTCAACACCAAATTCGAAGGGGAGCCAGCCACCCACACACAGCCGGGTGTCCAGCTCCAGTCTAATACCTATGA
CCTCCAAGAGAGCAACGTGAGGCTAAAGCTCACGATCGTTAGCACAGTTGGCTTTGGGGACCAGATCAACAAAGA
GGACAGCTACAAGCCTATCGTGGAATTCATCGATGCACAATTCGAGGCCTACCTGCAGGAAGAGCTAAAGATCCG
AAGAGTGCTACACACCTACCATGACTCCCGAATCCATGTCTGCTTGTATTTTATTGCCCCCAGGGTCAATCCCT
GAAGTCTCTGGACCTAGTGACTATGAAGAAGCTGGACAGTAAGGTGAACATCATCCCCATCATTGCCAAAGCAGA
TGCCATTTTGAAGAGTGAGCTAACAAAGTTCAAATCAAATCACCAGCGAGCTTGTGAGCAACGGAGTCCAGAT
CTATCAGTTTCTACAGATGATGAGTCGGTGGCAGAGATCAATGGAACCATGAACGCCCCACCTGCCGTTTGTGT
CATTGGCAGCACAGAAGAACTGAAGATAGGCAACAAGATGATGAGGGCGCGGCAGTATCCTTGGGGCACTGTGCA
GGTTGAAAACGAGGCCCCACTGCGACTTTGTGAAGCTGCGGGAGATGCTGATTGCGGTCAACATGGAGGATCTGCG
GGAGCAGACCCACACCCGGCCTATGAGCTGTATCGCCGCTGTAAGCTGGAGGAGATGGGCTTCAAGGACACCGA
CCCTGACAGCAAACCCCTTCACTTTACAGGAGACATATGAGGCCAAAAGGAACGAGTTTCTAGGGGAAGTCCAGAA
AAAAGAAGAGGAGATGAGACAGATGTTCTGTCAGCGAGTCAAAGAGAAAAGAACGGAGCTCAAAGAGGCAGAGAA
AGAGCTGCACGAGAAGTTTGACCGTCTGAAGAACTGCACCAGGACGAGAAGAAGAAAAGTGGAGGATAAGAAGAA
ATCCCTGGATGATGAAGTGAATGCTTTCAAGCAAAGAAAGACGGCGGCTGAGCTGCTCCAGTCCAGGGCTCCCA
GGCTGGAGGCTCACAGACTCTGAAGAGAGACAAAGAGAAGAAAATAATCCATGGCTGTGTACTGAATAGTATTC
CCCCTACAGCTGGACTGGACTCCATTTAGCCTTTTAAGCCGAGGTTTCTATTTTAACTGACAGCTTTCCTTTGG
GGTGCCAGGCAGCGAGGCCCCCACCCTATCCTGCCATGTACTTCAAGCTCACTTCTTCTTTTGAAGTATTGAGA
ACTTGCTCCTGCCTCCCAGCCCCACTGGCACTGACCATGACCACCTACTTCTATTTTTTTTTTAGAGTTTCTTTT
TTTGATCACTTACTTTCAAAGCACACAGTCAAACAAGGTTATGCCAAATTTCCAGGCCTTTTGAAGTATTGAGA
AGGGGAAGGGGATTTCTCACTTCAATTATAGATCATAATAGGAAGCAAAAAGAAAAAATGAAAAGCAAACATAT
GCACGCACTTTTCTTGTGACAAAGCAAGATGTAGTTTGTGTGTAGGTTTGGTGCTCTATTGATTGGTGAGT
GACCAGAGCAAGTATGAAGGTGATGCTGCCAAAGCACAAAGCCAGTTTCTTGGGAAAATTCAAGTTACAGTGGAGT
ATTTTTTTGAAGACCATATGCTTGGAGGTAGAAACAAACCAACGACCAAAAAAAAAAAAAAAAAAATCTGCTC
AGATACTCAGCCAGTAGCTCAGAGAGATGCTGAGTTAGGCCTGTCAGGTCTCCTTGGGAAAGGCTTCATATTTGC
AACTTTGATGATTCTATGTCCAGCTTCAGAGCTGCTTTCCAGAAATTCACGCTTAAACAACCAACCGGTAACCA
CCACTTCCCCACACCGCCGCTGGTAATTATTGCAATTACAAACCGGAGGCGCCCTCATTTGCATTTGTGTACAG
ATTAAGTATTAAGGCTTGAGAAGCTCTGAATAATTCAAAGTATTAGACCCACACAGCCTTGGAGAGACCTTCA
GAACTAAGGAGGAGTTTTATATTAAGGGAGACATTTAGTCAGTAAGACGATATAACCTACTTACTCCGTAAGG
GGAAATGAAGGCCCGGAGAAGGGAAGGACTTGACCGAGGTCCCACTTCTGTTTCGAGGCAGAAGCCAGACTAAT
TTTCATGCCTCCTGACTCCCAATCAGTTTCACAAAGGGATTCAATCTGTTTATATACGTTACATTCCTGG

6794/6881
FIGURE 6277

MAATDIARQVGEGRCTVPLAGHVGFDSLDPDQLVNKSVSQGFCFNILCVGETGLGKSTLMDTLFNTKFEGEPATHT
QPGVQLQSNTYDLQESNVRLKLTIVSTVGFGDQINKEDSYKPIVEFIDAQFEAYLQEELKIRRVLHTYHDSRIHV
CLYFIAPTGHSLKSLDLVTMKKLDSKVNIIPITAKADAIKSELTKFKIKITSELVSNGVQIYQFPTDDESVAEI
NGTMNAHLPPFAVIGSTEELKIGNKMMRARQYPWGTVQVENEAHCDFVKLREMLIRVNMEDLREQTHTRHYELYRR
CKLEEMGFKDTDPDSKPFSLQETYEAKRNEFLGELQKKEEEMRQMFVQRVKEKEAELKEAEKELHEKFDRLKKLH
QDEKKKLEDKKKSLDDEVNAFKQRKTAAELLQSQGSQAGGSQTLKRDKEKKNPWLCTE

6795/6881

FIGURE 6278

CTTCCGCCAGCTTCCCTCCTCTTCCTTTCTCCGCCATCGTGGTGTGTTCTTGACTCCGCTGCTCGCCATGTCTTC
TCACAAGACTTTTCAGGATTAAGCGATTCTTGGCCAAGAAACAAAAGCAAATCGTCCCATTCCCCAGTGGATTTCG
GATGAAAAC TGAAATAAAATCAGGTACAAC TCCAAAAGGAGACATTGGAGAAGAACCAAGCTGGGTCTATAAGG
AATTGCACATGAGATGGCACACATATTTATGCTGTCTGAAGGTCACGATCATGTTACCATATCAAGCTGAAAATG
TCACCACTATCTGGAGATTTCGACGTGTTTTCTCTCTGAATCTGTTATGAACACGTTGGTTGGCTGGATTCAGT
AATAAATATGTAAGGCCTTTCTTTTT

6796/6881
FIGURE 6279

MSSHKTFRIKRFLAKKQKQNRPIQWIRMKTGNKIRYNSKRRHWRRTKLGL

6797/6881

FIGURE 6280

AGATTCCGTCGCTTCTTCCGGAGCCGTACGTGGCACCGCCCCGCTCGCGGGCGGCCGCGGGGCTTGCTGGGAAGA
GAGGCGAAGCCAGGTCACCTTTCAAGGACCCAGAAGTAGGGTTTTGGCCTAGGTAACGGGGCAGAGATGTGGTTC
GAGATTCTCCCCGGA CTCTCCGTCATGGGCGTGTGCTTGTTGATTCCAGGACTGGCTACTGCGTACATCCACAGG
TTC ACTAACGGGGGCAAGGAAAAAAGGGTTGCTCATT TTGGGTATCACTGGAGTCTGATGGAAAGAGATAGGCGC
ATCTCTGGAGTTGATCGTTACTATGTGTCAAAGGGTTTGGAGAACATTGATTAAAGGAAGCATTTTCCTGATTGAT
GAAAAAATAACTCAGTTATGGCCATCTACCCCTGCTAGAAAGGTTACAGTGTATTATGTAGCATGCAATGTGTTA
TGTAGTGCTTAATAAAAATAAAATG

6798/6881
FIGURE 6281

ATGGACGTAGACACACGAGCCTATTTACCTCCGCTACCATAATCATCGCTATTCCCACCAGCGTCAAACCTGACT
CGCTACACTCTACGGAAGCAATATGAAGTGATCTGCTGCAGTACTCTGAGCCCTAGGGTTTCATTTTTCTCTTCAC
TGTGGCCTAACCGGCATTGTACTAGCAAACATCATCATTAGACATCGTACTACACGACACATACTACGTCGTAGCT
CACTTCCATTACGTCCTATCAATAGGAGCTGTATTGCGCCATCACAGGAGCCAATATTGTACCTATCACCATACTA
GTCTTTGCTGCCTGCAAGGCAGCAGTAGGCCTAGCCCTACTAGTCTCAATCTCTAACACATATGGCCTAGACTAC
GTACATAACCTAAGCCTACTCCAATGCTAA

6811/6881
FIGURE 6294

MEEMKKTAIRLPKGKQKPIKTEWNSRCVLFITYFQGDISSVVDEHFSRALSNIKSPQELTPSSQSEGVMLKNDDSM
SPNQWRYSSPWTKPQPEVPVTNRAANCNLHVPGPMAVNQFSPSLARRASVRPGELWHFSSLAGTSSLEPGYSHPF
PARHLVPEPQPDGKREPLLSLLQQDRCLARPQESAARENGNPGQIAGSTGLLFNLP PGSVHYKKLYVSRGSASTS
LPNETLSELETPGKYSLTTPPNHWGHPHRYLQHL

6812/6881
FIGURE 6295A

GCTGTTTGGAGTGTACCGTCTCAGTAAATGAATCCAGAAGAACAAATCGTGACATGGCTTATATCTTTGGGAGTT
TTAGAGTCCCCTAAAAAGACCATCTGTGATCCGGAGGAGTTTTTAAAGTCCTCGCTGAAAAATGGGGTAGTTCTG
TGCAAACATGATCAACAGACTCATGCCTGGCTCTGTGGAAAAGTTTTGTCTGGATCCCCAACTGAAGCTGACTGC
ATCAACAACATCAATGACTTCCTGAAAGGATGTGCAACCCTCCAAGTGGAATATTTGATCCTGATGACCTTTAT
TCAGGGGTCAATTTCTCCAAGGTACTGAGTACTCTTTAGCTGTCAACAAAGCAACAGAAGATCAGCTATCAGAA
AGACCATGTGGACGTTTCTTCTCTTAGTGCTGCTAATACTTCTCAGACAAACCCACAGGGAGCAGTTTCTAGC
ACAGTTTCAGGGCTGCAAAGGCAGTCAAAGACAGTGGAGATGACGGAAAATGGAAGTCATCAGTTGATAGTAAAA
GCAAGATTCAACTTTAAGCAGACTAATGAGGATGAACTGTCAGTTTGTAAGGGGGACATCATTTACGTCACACGA
GTTGAAGAAGGAGGCTGGTGGGAAGGCACATTAAATGGGAGAACAGGCTGGTTCCCCAGTAATTATGTCCGTGAA
ATTAAATCCAGTGAGAGACCTCTCTCCCCAAAAGCCGTCAAAGGATTTGAACTGCTCCACTTACCAAGAATTAT
TATACTGTGGTGTACAGAACATCCTGGACACTGAAAAAGAATATGCTAAAGAAGTTTCACTCTCTTCTGTTACT
TACTTAAGACCCCTGCAGTCCAATAACAATCTGAGTACTGTGGAGGTTACATCTTTACTGGGAACTTCGAGGAA
GTATGCACATTTCAACAGACACTCTGCCAAGCCTTGGAAGAATGTTCAAAGTTTCCAGAAAACAGCACAAAAGTA
GGAGGTTGTCTACTGAGTCTCATGCCTCATTTTTAAATCTATGTATCTGGCTTACTGTGCAAAACCATCCTTCAGCT
GTAAATGTGCTCACTCAGCACAGTGATGAGTTGGAACAATTCATGGAATCAAGGTGCATCGAGCCCAGGTATC
CTCATTTTTAACAACAAACCTCAGCAAAACCATTCATGCGACTGGAGAAATATGTTACTCTCTTGCAAGAGTTAGAA
CGGCATATGGAGGATACTCATCCAGATCATCAGGATATTCTGAAAGCAATCGTAGCATTCAAAACTCTCATGGGG
CAATGTCAAGATCTGAGGAAGAGAAAAACAGCTGGAGTTACAGATACTGTCCGAACCTATTCAGGCATGGGAAGGA
GAAGATATTAATAAACTTGGAATGTGATTTTTATGTACAAAGTAATGGTGCAGTATGGAGCATGTGAGGAAAAA
GAGGAGCGGTACCTTATGTTATTTTCAAATGTCTGATAATGTTATCTGCAAGTCCTCGGATGAGTGGCTTTATC
TATCAGGGAAAAATACCAATAGCAGGAACGGTGGTGACTAGATTAGATGAAATTGAAGGGAATGACTGCACATTT
GAAATCACTGGTAACACAGTGGAGAGAATTGTGGTCCATTGTAACAACAACCAGGACTTCAGGAATGGTTGGAG
CAGCTGAACAGACTGATCAGAGGACCTGCCTCTTGCAAGTTTCAATATCCAAAACCTCATCGTCATCATGTAGTGCT
CATTTCTTTCTTTAGCTCTACCGGACAGCCCCGAGGACCTTGGAGCCTCCTCAAATTATAAAACCGTGGAGTTTA
AGTTGTCTACGACCTGCACCTCCACTTAGACCATCAGCAGCACTAGGTTATAAAGAGAGGATGTCTTATATCTTA
AAGGAGTCTAGTAAAAGCCCTAAAACGATGAAGAAATTTCTTCATAAAAGGAAGACTGAGAGAAAACCATCGGAG
GAGGAATATGTGATTAGGAAAAGTACAGCTGCTCTGGAAGAGGATGCTCAAATCCTTAAAGTGATCGAAGCCTAC
TGCACCAGCGCAAATTTCAACAAGGCCATGGCTCAAGTACTCGAAAAGATTCCATTCCACAAGTCCTACTCCCT
GAGGAAGAGAACTCATCATTGAAGAAACCAGAAGCAACGGCCAGACCATCATGGAAGAAAAGAGCCTTGTTGAT
ACTGTTTACGCCTTGAAGGACGAGGTGAGAGAACTGAAGCAGGAAAAATAAAGAATGAAGCAATGCCTGGAAGAA
GAACTGAAATCAAGAAGGGACCTAGAAAAGCTGGTGCAGGAGGCTTTTGAAGCAAACAGATGAGTGTATTGAGGC
GAGTCCAGTAGCAAGACCTCAATTTCTTCCATTAACCATCACTGTGCCACTGGGTGGAGTGTGCCTTCAGGGCATCT
TGAAATGTCCCGCTGAATGATTTGACTCAGTTTGCTCACTTCTTTGGCTTTTGTGTTTGTGTTGAGTCTCTCTCT
CTCTCTCCCTCTCTCTTCTCTTCT
TGCTGTTGTTTGGTTATTGGTTGGTTGGTTGTTTCTTTTTTTTTTCAACAGGTGAAAAAGCAGGAAGTGGTGGTAGAGA
TGGCCTCAGAGTCTTTTCCATTCAAGTAAAGAGAAAGGGAATGCAGGCCAGTTACTTAAAAGGTCTTCAGATT
GCCTTCAGTTTACAGTGCCCTCTGCAACAGCCATTGCCCTCAGGTACATTCTTTGGGCTGGCTGCCCTTGCAAAG
CAGCTGGCCAAGGCTTATTAATGTGAACCCAACCTTTTCCCCAGGGCTTTCTGTACCTGCAAGCCTCTTAGTAC
TTAATTTACCGAAGGCAAATCTTCCAGACTATGGCTTGAGTAGGATGAAAGACAAACACATCTGCCCAATGATCC
AGCTGCCCTTCTTAGACCATCACATGCCTCCCTCAATCACAGGTTTTTAAAATTAAGTGCCTATGTTGTCTATA
AGACCAAGAAAACTGTAGTACCTTATTCTTTTTGTGTCATGTAAATTGTAAGTCAAGGGGGCAGAAGCTCTGGT
CACCCACACCAACACCAAATCCATCAGCAAATCTACTGGACAATCCTCCCTTTTAGTAGCAGAGTTGACCGCCT
TTTCCCATGTCATGATAGGTTTCTTTCCCTCATTCTGCCTAGTGTGTAAGTTTCTATTTCCCCAGTACTTTTAG
CCAACCTTACCAAGTGGTGTGTAACTAGTATGTATGTGCTTTGCTTACTTTTAAAAAATGTAGTTAGACTGT
GAGGAGTTACTTTATGTACGTTGCATATTCAAACGTGATGTTTTATCCTTCAAACAATCTGCATTAAGAAGAT
ATTGTGCCCTACTAGACAGCTTTCATTCACTTTATTACTCTCTCATATATGCTGTGAGAAGTTGTAATATTAATT
GGCCTCTTTGGGTGGGACTCTAAGCAGTATTTGCAGAAATATGCTTCTGGTCCAACCTGTACATCCAGAACAAA
GGGCCCTCTAGTAGCTGTGTGCTGGATTATTCAGGACTGATTAAGTCAAGTTGCTCATTGAATCACATCATCCA

6813/6881
FIGURE 6295B

CTTTATCCCAGAACTAGAACTGTGAGAAACCAGGTTTAGAAGACAGTCACAGAACAGCACACATCCAAATTCAG
CGCCATTGAAAGTTGGCCTAAGGCTCAGTGCCACTCACCCCTCCCTCCCCAAAAGACAAGAGAAATTTGGCCAGA
TGGGGAAGGTCACTGGAAATTGAGGCCAAAGGGCTGATCAGAATTGCCTTTATAATATATTTGATGGATGCCTAT
AAATGTGGGTTTTGCAAATATTGTTTAAAAACCAAACCTTGAAGCCAGGCATGGTGGCCACACCTGTGGTCCCAG
CTACTCAGGAGGCTGAGGTGGGAGGATCATTGAGCCCAGGAGGTCAAGGCTGCAGTGAGCTGTGATGACACCAC
TGCACTCCAACCTAGGTAACAGAGAGACACCTCTGTCTCTGAAAAAACAAACTTGAAGTTTGAAACCCCCAGCT
TGCTGAGGAGCCCTTTTTTATTTTGGTACTGAGAGTCTCAAGGTCCCATAGCTACATGGTACAGGGCTGTTGTCT
GCTTGCTGCACAGCAGAAATTACACCATCCACAGGAAATGGACTATTTTGCAGTCCAACATCAGCCAACCACAC
ACAGCCGTGTTTGAAGCTGAAGAGTAAAGAAATTTCTAGGAATGGCTGTTGTTCTGTTTTTTAGCACAGCCATT
TAGATATAACATCCTTCACTTAAAAATTAAAAACATCAGTACTACCACCACCACCAACAACATCAACACAGATCT
TCACATCTGCCCATTTCTGTGGTTAGTCAATGGCTTGCAATAAATGTGCAAACCTGCATCTATAGGAAACATTTTGT
TGATTACGGAATACTTTAGTTGATTGCTGAAAATATTGAAAGGTCTTCATTTTACAGTGATGAGTACATATGCAT
GTTTCGGGGACTTGGCCCTTCTGATGAGGGGCCCTCGGTACTCTGGATAACGAAGCTTGTGCAGAGTGGTAACCA
TGCTTACACACTAACTATAATATAAAGGAAATGAAGCCATGTTAATCTGAGAGCAGTGTCGCCATAGTTGTGTT
GTTTACAATACTCTATAAATGGGTTCCCTGTTGCCCTGTAATTAACTGCTGCCCGTAGAGGCCTTTCAGTTCCTT
TTCTGTCCTTCCCCTTCTTAACACAAGCTCAAATTTTCTAACTTGTTTTTATTTTGAAGACTTTTAAAAATGGACA
TTTTCAATACATAAAAATAAACAGTGCTTTATAAAAA

6814/6881
FIGURE 6296

MNP EEQIVTWLISLGVLES PKKTI CDPEEFLKSSSLKNGVVLCKLINRLMPGSVEKFCLDPQTEADCINNINDFLK
GCATLQVEIFDPDDLYSGVNF SKVLSTLLAVNKATEDQLSERPCGRSSSLSAANTSQTNPQGAVSSTVSGLQRQS
KT VEMTENGSHQLIVKARFNFKQTNEDELSVCKGDIYVTRVEEGGWEGTLNGRTGWFP SNYVREIKSSERPLS
PKAVKGFETAPLTKNYYTVVLQNILDTEKEYAKELQSLLVTYLRPLQSNNNLSTVEVTSLLGNFEEVCTFQQTL C
QALEECSKF PENQHKVGGCLLSLMPHF KSMYLAYCANHPSAVNVLTQHSDELEQFMENQGASSPGILILTTLNLSK
PFMRLEKYVTLLQELERHMEDTHPDH QDILKAIVAFKTLMGQCQDLRKRKQLELQILSEPIQAWEGEDIKNLGNV
IFMSQVMVQYGACEEKEERYLMLFSNVLIMLSASPRMSGFIYQGKIPIAGTVVTRLDEIEGNDCTFEITGNTVER
IVVHCNNNQDFQEWLEQLNRLIRGPASCSSLSKTSSSSCSAHSSFSSTGQPRGPLEPPQIIKPWSLSCLRPA PPL
RPSAALGYKERMSYILKESSKSPKTMKKFLHKKRTERKPSEEEYVIRKSTA ALEEDAQILKVIEAYCTSANFQQG
HGSSTRKDSIPQVLLPEEEKLII EETRSNGQTIMEEKS LVDTVYALKDEVRELKQENKRMKQCLEELKSRRDLE
KLVRRLKQTDECIRGESSSKTSILP

6815/6881
FIGURE 6297

AAAAAAAAACATGGTTGAAGCAGATCGCCAGGAAAGCTCTTCATTGGTGGGCTTAATACGGAAACAAATGAGAAA
GCTCTTGAAGCAGTATTTGGCAAATATGGACGAATAGTGGAAGTACTCTTGATGAAAGACCGTGAAACCAACAAA
TCAAGAGGATTTGCTTTTGTACCTTTGAAAGCCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAG
TCATTAGATGGAAAAGCCATCAAGGTGGAACAAGCCACCAACCATCATTTGAAAGTGGTAGACGTGGACCGCCT
CCACCTCCAAGAAGTAGAGGCCCTCCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACCAGGGGACCT
CCCTCACGGGGAGGACACATGGATGACGGTGGATATTCCATGAATTTTAAACATGAGTTCTTCCAGGGGACCACTC
CCAGTAAAAAGAGGACCACCACCAAGAAGTGGGGGTCTCTCTCTAAGAGATCTGCACCTTCAGGACCAGTTTCGC
AGTAGCAGTGGAAATGGGAGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGGAA
CCGCTGCCCTCTCGTAGAGATGTTTATTTGTCCCAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAAGC
AGAGATTACCCAAGTTCTCGTGATACTAGAGATTATGCACCACCACCACGAGATTATACTTACCGTGATTATGGT
CATTCCAGTTCACGTGATGACTATCCATCAAGAGGATATAGCGATAGAGATGGATATGGTCGTGATCGTGACTAT
TCAGATCATCCAAGTGGAGGTTCCCTACAGAGATTCATATGAGAGTTATGGTAACTCACGTAGTGCTCCACCTACA
CGAGGGCCCCCGCCATCTTATGGTGGAAGCAGTCGCTATGATGATTACAGCAGCTCACGTGACGGATATGGTGGA
AGTCGAGACAGTTACTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTCGTGATCGGGTTGGCAGACAAGAAAGA
GGGCTTCCCCCTTCTATGGAAGGGGGTACCCTCCTCCACGTGATTCTACAGCAGTTCAAGCCGCGGAGCACCA
AGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATACTAGAAACAAACAAAACCTT
TGGACCAAATCCCAGTTCAAAGAAACAAAAAGTGGAACTATTCTATCATAACTACCCAAGGACTACTAAAAGG
AAAAATTGTGTTACTTTTTTTAAATTCCCTGTAAAGTCCCCCTCCATAATTTTTATGTTCTTGTGAGGAAAAAG
TAAACATGTTTAATTTTATTTGACTTTCGCATTGCTTTTCAACAAGCAAATGTTAAATGTGTTAAGACTTGTAC
TAGTGTGTAACTTTCCAAGTAAAAGTATCCCTAAAAGGCCACTTCCTATCTGATTTTTTCCAGCAAATGAGGCA
GGCAATTCTAAGATCTTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAA
GCTAGCTATTAGAGGGTGGTTGGGGTATGCTACTCATAAGATTTTCAGGGTGTCTTCCAAGTAAATCTCAATGTT
CTCAGTACGAAAAACCTGAAATCACATGCCTATGTAAGGAAAGTGCTATTACCCAGTAAACCCAAAAAAGCAAA
TGGATAATGCTGGCCATTTTGCTTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCCTTTCCCTTCCCCCA
ATAAGACCATTTAAGTGTGTGTTAAACAACCTACAGAATACTAAATAAAAAGTTTGGCCAAAACC

6816/6881
FIGURE 6298

MVEADRPGLFIGGLNTETNEKALEAVFGKYGRIVEVLLMKDRETNKSRGFAFVTFESPADAKDAARDMNGKSLD
GKAIKVEQATKPSFESGRRGPPPPPSRGPPRGLRGGRGSGGTRGPPSRGGHMDDGGYSMNFNMSSSRGPLPVK
RGPPPRSGGPPPKRSAPSGPVRSSSGMGGRAPVSRGRDSYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDY
PSSRDTRDYAPPPRDYTYRDYGHSSSRDDYPSRGYSRDRDGYGRDRDYSDHPSGGSYRDSYESYGNSRSAPPTRGP
PPSYGGSSRYDDYSSSRDGYGGSRDYSSSRSDLYSSGRDRVGRQERGLPFSMERGYPPPRDSYSSSSRGAPRG
GRGGSRSRDRGGGRSRY

6817/6881
FIGURE 6299

CTCGTGATTACTCAGTTTGGGAACAGTGACAATAACTTTACAAATACATATACAGATGTATCTTCTGTCCACTCA
GGAAACACAGCAAGGGTCCCATTTAAGTACAAGTCAGAGGTGATTCCAGGGCACTTTGGATTCCCTCGTGCCCCAG
GATCAAGCAGTACTTACCGCTTCCACGGTACTTAGCGTTCCCTGCCAATAAAAGAAGCCCAACTCCGGCCGTCGGC
TGTCGCTGCCAGAGGGAGGAGGGCCATGATCCAAAGGAACCAGAGCAGTTGAGAAAAGTGTATTGTTGGTGGTCTG
AGCTTTGAAACTACAGAAGATAGTTTAAAAGAACATTTTGAGAAATGGGACACACTCACAGATTGTGTGGTAATG
AGAGACCGCCAAACAAAACGTTCCAGGGGCTTAGGTTTTGTGACTTATTCTTGTGTTACAGAGGTAGATGCAGCA
ATGTGTGCTCGACCACACAAGGTTGATGGGCATGTAGTGGAACCAAAAAGAGCTGTTTCTAGAGAGGATTCTGTA
AAGCCCGGTGCCCATCTAACAGTGAAGAAAATTTTTGTTGGTGGTATTAAAGAAGATACAGAAGAATATAATTTG
AGAGACTACTTTGAAAAGTATGGCAAGATTGAAACCATAGAAGTTATGGAAGACAGGCAGAGTGGAAAAAGAGA
GGATTTGCTTTTGTAACTTTTGATGGTCACGATACAGTTGATAAAATTGTTGTTTCAGAAATACCACACTATTAAT
AGGCATAATTGTGAAGCAAAAAGGCCGTTTCTAAACAAGAAATGCAGTCTGCTGGATCATAGAGAGGTCGTGGAG
GTGGGTCTGGCAATTTTATGGGTTGCGGAGGAAGCTTTGGAGATGGTGGAGCAATCAAATTATGGACCCATGAAA
GGGGGCAGTTTTGGTGGAAAGACACTCGGGCAGTCCCTATGGTGGTGGTTATGGATCTGGTGGTGGAAAGTGGTGG
TATGGTAGCAGAAGGTTCTAA

6818/6881
FIGURE 6300

TGGGAATCTGACGGATCGGAGGCATTTGTGAGGAGGCGCGAATCAAGTTAGCGGGGGGAAGAGTCTTAGACCTGG
CCAGTCCTCAGGGTGAGGGCCCTGAGGAAGAACTGAGGGACCTCCCACCATAGAGAGAAGAAACCCCGCCTGTA
CTGCGCTGCCGTGAGACTGGTGCTCCAGGAACCAGGTGGTGACGAAC TGGGTGTGAGGCACACAGCCTAAAGTCA
GCACAGCAGAGGAGGCCAGGCAGTGCCAGGAGTCAAGGCCTGTTGGATCTCATCATCCATATCCCTGTTGATAC
GTTTACCTGCTGCTCCTGAAGAAGTCGTCATGCCTCCCGTTCCAGGCGTTCCATTCCGCAACGTTGACAACGACT
CCCCGACCTCAGTTGAGTTAGAAGACTGGGTAGATGCACAGCATCCCACAGATGAGGAAGAGGAGGAAGCCTCCT
CCGCTCTTCCACTTTGTACTTAGTATTTTCCCCCTCTTCTTCTCCACATCCTCTTCTCTGATTCTTGGTGGTC
CTGAGGAGGAGGAGGTGCCCTCTGGTGTGATACCAAATCTTACCGAGAGCATTCCAGTAGTCTCCACAGGGTC
CTCCACAGGGTCCTTCCCAGAGTCCTCTGAGCTCCTGCTGCTCCTCTTTTTTCATGGAGCTCATTAGTGAGGAGT
CCAGCAGCCAGAAAGGGGAGGATACAGGCACCTGTCAGGGCCTGCCAGACAGTGAGTCTCTTTCACATATACAC
TAGATGAAAAGGTGGCCGAGTTAGTGGAGTTCTGCTCCTCAAATACGAAGCAGAGGAGCCTGTAACAGAGGCAG
AGATGCTGATGATTGTCTCATCAAGTACAAAGATTACTTTCTGTGATACTCAAGAGAGCCCGTGAGTTCATGGAGC
TTCTTTTTGGCCTTGCCCTGATAGAAGTGGGCCCTGACCACTTCTGTGTGTTTGCAAACACAGTAGGCCTCACCG
ATGAGGGTAGTGATGATGAGGGCATGCCCGAGAACAGCCTCCTGATTATTATTCTGAGTGTGATCTTCATAAAGG
GCAACTGTGCCTCTGAGGAGGTCTCTGGGAAGTGCTGAATGCAGTAGGGGTATATGCTGGGAGGGAGCACTTCG
TCTATGGGGAGCCTAGGGAGCTCCTCACTAAAGTTTGGGTGCAGGGACATTACCTGGAGTATCGGGAGGTGCCCC
ACAGTTCTCCTCCATATTATGAATTCCTGTGGGTCCAAGAGCCCATTCAGAAAGCATCAAGAAGAAAGTACTAG
AGTTTTTAGCCAAGCTGAACAACACTGTTTCTAGTTCTTTCCATCCTGGTACAAGGATGCTTTGAAAGATGTGG
AAGAGAGAGTCCAGGCCACAATTGATACCGCAGATGATGCCACTGTCTGCGCCAGTGAAAGCCTCAGTGTCTATGT
CCAGCAACGTCTCCTTTTTCTGAGTGAAGTCTAGGATAGTTTCTTCCCTTGTGTTTGAACAGGGCAGTTTAGGTT
CTAGGTAGTGGAGGGCCAGGTGGGGCTCGAGGAACGTAGTGTTCTTTGCATTCTGTCCCATATGGGTGATGTAG
AGATTTACCTGTTTTTCAGTATTTTCTAAATGCTTTTCTTTGAATAGCAGGTAGTTAGCTTCAGAGTGTTAATT
TATGAATATTAGTCGCACATGTATTGCTCTTTATCTGGTTTAAGAGTAACAGTTTGATATTTTGTAAAAAATG
GAAATACCTTCTCCCTTATTTTGTGATCTGTAACAGGGTAGTGTGGTATTGTAATAGGCATTTTTTTTTTTTTTT
ACAATGTGCAATAAATCAGCAGTTAAATAGTGAACAAAATTGAAGGGTGGTCAGTAGTTTCATTTCTTGTCTT
GCTTATTCTTTTGTCTTGAAAATTATATATACCTGGCTTTGCTTAGCTTGTTGAAGAAAGTAGCAGAAATTAAA
TCTTAATAAAAGAAAAAAAAAAAAAAAAAAAAAGG

6819/6881
FIGURE 6301

MPPVPGVPFRNVDNDSPTSVELEDWVDAQHPTDEEEEEASSASSTLYLVFSPSSFSTSSSLILGGPEEEVPSGV
IPNLTESIPSSPPQGPPQGPSQSPLSSCCSSFWSSSFSEESSSQKGEDTGTCQGLPDSESSFTYTLDEKVAELVE
FLLKYEAEPPVTEAEMLMIVIKYKDYPVILKRAREFMELLFGLALIEVGPDHFCVFANTVGLTDEGSDDDEGMP
ENSLIIILSVIFIKGNCASEEVIWEVLNAVGVYAGREHFVYGEPRELLTKVWVQGHYLEYREVPHSSPPYYEFL
WGPRAHSESIKKKVLEFLAKLNNTVPSSFPSWYKDALKDVEERVQATIDTADDATVMASELSVMSSNVSFSE

6820/6881
FIGURE 6302

TTTTCTTTGCTGTTCTTCATCCTCGTTGTTGCTGTGCATCATGTTCACTGTGGCTTTTACAATACAGCCTGTAAAT
TCCTTATGACATAGTTTCAGTGCATTTGGCTTTATTGCCTGCTCCACAGTTCTTTACCTTTACTTGGCTTAGAGAA
ACTGTATCTTTGTTGCTTCATATAACCTTTCCCCAACCCCACTAAGCTGGACATAACTTATTAGTGGTCCTCCCG
TCACTTTATTTGTAGAAATCTCTCTTTTCACATGAGCAGGGGTTCTTTTCATGTGGTTTAGCTGACAGCAGAACTAG
TGATTCTAGACATTTTGCATGGCCCTCATTTCAGTGGCTCACAAACATGAGGGAGCATCAGAACTACTTGAGGGGC
TTGTTAAAACCCAGTGCCTTAGAAGTCGGATGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCCCAGG
CAGGCGGATCACTTGAGGTTAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAACCCCGTCTCTACTAAAAATA
CAAAAGTTAGCCGGGTGTGGTGGTGCATGCCTGTAATCCCAGCTTCTTGGGAGGCCAAGGCACAAGAATCGCTTG
AACCAGGAGACGGAGGTTTCAGTGAATGAAGATCGTGCCATTGTATTCCAGCCTCGGCAACACAGCAGGACTGTG
ATTTTCTTTGGAGACTCCTAGATTTTCTGTGGTTTTGAACTGAATTTGTTGGATGTTGGCAAGTGCCTCTTATGA
GCTGTTTCTTTATCCTGCATTTGCCCCACAAAGACTTATCTGGAGGTGAGCAAAGTATGTTTGGTAGTGAGGTCA
CAAAGGCAATCAGCCCCCTTCTCCCCACTCCCATTCGCATCTTCTCAGTCCTTCTCCCTTTCTTTCCAAGTAGTT
TACCCACCCCTCCTCTTTTCTCCCCGTGCCCTAAAATAATCCACGTGTCTTCTTAAATCTCTCTTTGATCCTGT
CCTTTGATAACACCGTCAGTGCCTACTACTGGGTCTAGACAGACCTCTGTTGAGCAGTCAGAGTCTTCCCTGACT
CCACAATGCCCTTTTCTTGGCTGACCAGTATGACTACTGGTCCCCACCTTTCCCTTGCCCTATCCCTACCTCCCT
CCTACTAGGTTGTCCCATCCCTCTCTTCACCCATTCATTCATGACCATTTTTTCACTACCAAGCTCCCCCCTCCC
GAAGGAGGCTGAGGTTTTTGTGACTCTCTAGACTCTATTGTGGGATGGAATGAACATTGCTAAAGAATCTTGTTG
TCGCTTTACTTTAAAAAGGTATTTTTTCTTAATTATAAACTGATGTGTCAGTTACGGAAAAATTAGAAATGCA
GCACAAATACATGAATATTTTACCACAAAATTGCCATATAATATCTTGTCTTTTTTGGGGGTGTGAATTTTTTG
ATTGTTCTGGTCATATTCTTTATCATGTAATTTATGTTCTTTTTTACTAAGTATTATGTGTGGTTATTATAGATT
TTCACAAAGATATATTGCTGGTAATATATTTTATTGTGTAGTCTTATTAATTTACTTTAACCTTCTTTCAATTGTTA
GAAATTTAGGCTATTTCCAGATTTTTCAGTATTGTAAATAATGCTGTGATGACCAATTTTGTGAATAAAATGTTTT
TATGTATTTTACAGATTATTCCCTTAGGATAGTCTCTCAGTGCCAAGTTGTCAAAAACATCTCTATTTTGCTTATCT
TCCTGCTCTCTTGCTGCCTTAGGGGGTAGTAACTGAAACATAAAGTAAACATGCATACAAATAAAAAACATAAA
ACAAAAATAAGCAACCTGATGGTAATAGGTGAAAGTGGTAACCTGTTTTAACTTTGAATTCTTGCCGGGCGCGGT
GCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACGAGGTGAGGAGTTCAAGACCAGCCT
GGCCAAGATGGTGAAATCCCGTCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGTGGGCGCCTGTAATCC
CAGCTACTTGGGAGGCTGAGGCAGAGAATTGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCAAGATCGTGCC
ACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCAAATAAAAAACAACAAAAAACAAAAAACTTAAA
ATTCTTTGCTTGTAGTGACCTTGATCATGTTCTCTTTGTACGATAGTTGGGCATCTGTATTTCCACTTGTGTG
AATTTGCCCTTTAAATTTTGGTTATGGGTTTCACCTTTTAAATAATCAAACATATTTATCTTTTCTGTGTGATA
GGTTTTTTCTGTATCTTTTCTGTAAACACACAGACCCCTCCCCAATCTGGACATTGAATAAATATTCATTTT
CCTTTGC

6821/6881
FIGURE 6303

MNIAKESCVRFTLKRYFFPNYKTDVSVTEKLEMQHKYMNILPQNCHIIISCLFWGCEFFALFWSYSLSCNLCSELL
SIMCGYYRFSQRYIAGNIFYCVVL

6822/6881
FIGURE 6304

GGGAGCTGTATGAAAGCGGAAGAGTTATAGACCGCTAACACCTGTCACTGGCCACTGGTTTCCCGGAGTTAGCGG
CAACGACCTTGACGCTGGACACTAGCCAGGCGCTCCCTCTTCTCACAGCGGCCCACGTCTCCTTGCTTGGGAGC
CCATCGTCCCTGGCTCCGGTGGCCTCGCTGGGTCTCGGGGAAGCAGAGGACTGTTTCATTCTGTGGCGAAAAGCCG
GAGTCGGCCCTAGACACCCACGACTCGCAGGGTCCATGGTTCCGGAGGCCGTGAGACCTGCCGGGGCTGACAGGT
GCCAGGGCCCATGCTGCGGGAGCCTGTGTGCTCAGCCTTCTTGCGGACGGTAAAGAAGCTAAGTGGAAGAGTGTT
TCCTCCTCTGGCCGTAAAGCAGGTACTCTCTGCAGCACCCAGCTGTCCCCGCCCTACTCCGGACCGCCCCAAAGAC
TCCATGGGATGGACCTGAGTCAGCCGAATCCAGCCCCCTTCCCTTGGGCCTGCTGTGGTGCTGGACATCAGTGAC
AGACGGAAGCAGGAGACCATCAAGGCTACGGGAGGCCCGGGGCGCTTGCGAAGATGAAGTTTGGCTGCCTCTCCT
TCCGGCAGCCTTATGCTGGCTTTGTCTTAAATGGAATCAAGACTGTGGAGACGCGCTGGCGTCCCTTGCTGAGCA
GCCAGCGGAAGTGTACCATCGCCGTCCACATTGCTCACAGGACTGGGAAGGCGATGCCTGGCGGGAGCTGCTGG
TGGAGAGACTCGGGATGACTCCTGCTCAGATTAGGCCTTGCTCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGA
TAGCGGGACTCGTTGACATTGGGGAACTTTGCAATGCCCCGAAGACTTAACCTCCGATGAGGTTGTGGAAGTAG
AAAATCAAGCTGTACTGACCAACCTGAAGCAGAAGTACCTGACTGTGATTTCAAACCCAGGTGGTTACTGGAGC
CCATACCTAGGAAAGGAGGCAAGGATGTATTCCAGGTAGACATCCAGAGCACCTGATCCCTTTGGGGCATGAAG
TGTGACAAGTGTGGGCTCCTGAAAGGAATGTTCAGAGAAACCAGCTAAATCATGACACCTTCAATTTGCCATCA
TGACGCAGACCTGTATACATTAGGTTAAATCTGAATTTCCACTGCTTTGGAGAGTCCCACCCACTAAGCACTGTG
CATGTAAACAGGTTCCCTTTGCTCAGATGAAGGAAGTAGGGGTGGGGCTTTCCTTGTGTGATGCCTCCTTAGGCA
CACAGGCAATGTCTCAAGTACTTTGACCTTAGGGTAGAAGGCAAAGCTGCCAGTAAATGTCTCAGCATTGCTGCT
AATTTTGGTCTCTGCTAGTTTCTGGATTGTACAAATAAATGTGTTGTAGATGACTGGTTAGTGTTTGGGCTTTGT
TCTATGTTTTCCCTGATTTGTTCTGGTCAAACTCATCAAATGTGTAAGTAGCATCCAGGCGACAATACAGAAA
GTCTGGGACCTGGCACTGAATGTTTGCCTGGTAGTGACTAGCCGTTAATCAACCGACTCATCCAGGATGAAGAGG
ACGTCAGACTTAGAGCAGCTGTCTGTCTTTAGGTTACTCTCACTCTTCTGAAAGTGTCTGTGAGTTTCTGAAG
CATGTGTGTTACCTGCATCACACAGCTACTTCCTATCCTAGCAATACATCCAAAATACAGCTCTAGTAGAGTGAG
GTTAACTTGGAATGTGATCAGTAGTGTTGTTTTATTTTGTAGTAATTTTTTTTTTTTTTTTGGTGATTTAGCAAA
GTTTCTAGTTGTTATCCATGAGGATGATGGGCATTTCCCCCAGGTATTGACTGCAGTGG

6823/6881

FIGURE 6305

MKFGCLSFRQPYAGFVLNGIKTVETRWRLSSQRNCTIAVHIAHRDWEGDACRELLVERLGMTPAQIQALLRKG
EKFGRGVIAGLVDIGETLQCPEDLTPDEVVELENQAALTNLKQKYLTVISNPRWLLEPIPRKGGKDVVFQVDIPEH
LIPLGHEV

6824/6881
FIGURE 6306

GGAGCTGCATGAAAGCCGAAGTTATGGACCGCTAGCATCTGTCACTGGCCACCGGTTTCCGGGAGTAAGCGGCAG
CTACCTTACAGCCCTGACACGAGCCGGGTGCTCTCTCTTCTCACC GCGGCCACGTCTCCTCGCTGGCTCCGGTG
GCCTCGCTGGGTGCGGAGGAGGCGGAGGACTGTACTCTGAGGCCAAAAGCCAGAGTCGGCCCTGAACGCCCACGA
CTCTCAGGGTCCAGAGGCCGTGAGACCGGCCGCGGCTGAAAAGGTACCAGGGCCCCCTGATGCCGGAGCCCCGTGTGC
TCGGCCCTCTTGACAGACGGTAAAGAAACCAAGTGGGAAGAGTGTTTCCTCCTCTGGCCGTAAAGCAGCTGTCCCCG
CCCTACTCCGGACCGCCCCAAAGACTCCATGGGATGGACCTGAGTCAGACGGAAGCAGCAGACCATCAAGGCTAC
GGGAGGCCCGGGGCGCTTGCGAAGATGAAGTTTGGCTGCCTCTCCTTCCGGCAGCCTTATGCTGGCTTTGTCTTA
AATGGAATCAAGACTGTGGAGACGCGCTGGCGTCTCTGCTGAGCAGCCAGCGGAAGTGTACCATCGCCGTCCAC
ATTGCTCACAGGGACTGGGAAGGCGATGCCTGTCGGGAGCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAG
ATTCAGGCCTTGCTCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAACT
TTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAAGTAGAAAATCAAGCTGCACTGACCAACCTGAAG
CAGAAGTACCTGACTGTGATTTCAAACCCAGGTGGTTACTGGAGCCCATACCTAGGAAAGGAGGCAAGGATGTA
TTCCAGGTAGACATCCCAGAGCACCTGATCCCTTTGGGGCATGAAGTGTGACAAGTGTGGGCTCCTGAAAGGAAT
GTTCCAGAGAAACCAGCTAAATCATGGCACCTTCAATTTGCCATCGTGACGCAGACCTGTATAAATTAGGTTAAA
GATGAATTTCTTGTTGTGATGCCTCCTTAGGCACACAGGCAATGTCTCAAGTACTTTGACCTTAGGGTAGAAGGC
AAAGCTGCCAGTAAATGTCTCAGCATTGCTGCTAATTTGGTCCTGCTAGTTTCTGGATTGTACAAATAAATGTG
TTGTAGATG

6825/6881
FIGURE 6307

MCVTDKTRPPSSSWFPMPAKYMTFLGPLTSFAVLHLMTFPLYLPCCAGKEAKWKS SVSSSGRKA AVPALLRTAPKT
PWDGPESAESQPLPLGLLWCWTSVTDGSRPSRLREARGACEDEVWLPLLPAALCWLCWKWNQDCGDALASPAEQ
PAELYHRRPHCSQGLGRRCLAGAAGGETRDDSCSDSGLAQERGKVWSRSDSGTR

6826/6881
FIGURE 6308

GGCACGAGGGCGGGGATCAGAGAGAAGCGAGGGCCTGGTTCTGAGGGGTCTGGCTTGAGATCGGCTGAGGGAAGCG
GGCTCAGGGTCTGTGAGGAGGCAAGGTTTCGCAGAGAACAGGCCAGCCAGGAGGTGAGGAGGCCCCAGAGAAGCAC
TGAAGAAGACCTGCCTGTGGGTCTCAATTGCCCAGCTCCGGCCCCACACTCTCCTGCTGCCCTGACCTGAGTCATC
ATGCCTTCTTGGGCAGAAGAGTCAGCGCTACAAGGCTGAGGAAGGCCTTCAGGCCCCAAGGAGAGGCACCAGGGCTT
ATGGATGTGCAGATTCCACAGCTGAGGAGCAGAAGGCTGCATCCTCCTCCTCTACTCTGATCATGGGAACCCCTT
GAGGAGGTGACTGATTCTGGGTACCAAGTCCTCCCCAGAGTCCTGAGGGTGCCTCCTCTTCCCTGACTGTCACC
GACAGCACTCTGTGGAGCCAATCCGATGAGGGTTCCAGCAGCAATGAAGAGGAGGGGCCAAGCACCTCCCCGGAC
CCAGCTCACCTGGAGTCCCTGTTCCGGGAAGCACTTGATGAGAAAGTGGCTGAGTTAGTTTCGTTTCTGCTCCGC
AAATATCAAATTAAGGAGCCGGTCACAAAGGCAGAAATGCTTGAGAGTGTGATCAAAAATTACAAGAACCCTTT
CCTGATATCTTCAGCAAAGCCTCTGAGTGCATGCAGGTGATCTTTGGCATTGATGTGAAGGAAGTGGACCCTGCC
GGCCACTCCTACATCCTTGTCACCTGCCTGGGCCTCTCCTATGATGGCCTGCTGGGTGATGATCAGAGTACGCC
AAGACCGGCCTCCTGATAATCGTCCTGGGCATGATCTTAATGGAGGGCAGCCGCGCCCCGGAGGAGGCAATCTGG
GAAGCGTTGAGTGTGATGGGGCTGTATGATGGGAGGGAGCACAGTGTCTATTGGAAGCTCAGGAAGCTGCTCACC
CAAGAGTGGGTGCAGGAGAACTACCTGGAGTACCGCCAGGCGCCCGGCAGTGATCCTGTGCGCTACGAGTTCCTG
TGGGGTCCAAGGGCCCTTGCTGAAACCAGCTATGTGAAAGTCCTGGAGCATGTGGTCAGGGTCAATGCAAGAGTT
CGCATTTCTACCCATCCCTGCATGAAGAGGCTTTGGGAGAGGAGAAAGGAGTTTGAGCAGGAGTTGCAGCTAGG
GCCAGTGGGGCAGGTTGTGGGAGGGCCTGGGCCAGTGCACGTTCCAGGGCCACATCCACCACTTTCCCTGCTCTG
TTACATGAGGCCATTCTTCACTCTGTGTTTGAAGAGAGCAGTCACAGTTCTCAGTAGTGGGGAGCATGTTGGGT
GTGAGGGAACACAGTGTGGACCATCTCTCAGTTCCTGTTCTATTGGGCGATTTGGAGGTTTATCTTTGTTTCCTT
TTGGAATTGTTCCAATGTTCTTCTAATGGATGGTGTAAATGAACCTCAACATTCATTTTATGTATGACAGTAGAC
AGACTTACTGCTTTTTATATAGTTTAGGAGTAAGAGTCTTGCTTTTCAATTTATACTGGGAAACCCATGTTATTTT
TTGAATTCAGACACTACAAGAGCAGAGGATTAAGGTTTTTTTTAGAAATGTGAAACAACATAGCAGTAAAATACAT
GAGATAAAGACATAAAGAAATTAAACAATAGTTAATTCTTGCCTTACCTGTACCTCTTAGTGTACCCTATGTACC
TGAATTTGCTTGGCTTCTTTGAGAAATGAAATTGAATTAATATGAATAAATAAGTCCCCCTGAAAAAAAAAAAAA
AA

6827/6881

FIGURE 6309

MLLGQKSQRYKAEGLQAQGEAPGLMDVQIPTAEEQKAASSSSTLIMGTL EEVTD SGSPSP PQSPEGASSSLTVT
DSTLWSQSDEGSSSNEEEGPSTSPDPAHLES LFREALDEKVAELVRFL LRKYQIKEPVTKAEMLESVIKNYKNHF
PDIFSKASECMQVIFGIDVKEVDPAGHSYILVTCLGLSYDGLLGDDQSTPKTG LLIIVLGMILMEGSRAP EEA IW
EALSVMGLYDGREHSVYWKLRKLLTQEWVQENYLEYRQAPGSDPVRYEFLWGPRALAETS YVKVLEHVVRVNARV
RISYPSLH EEALGEEKGV

6828/6881
FIGURE 6310

AGTTTCCAGGATGGCTTCTGCATCAACTTCTTAAAAATAATTCACACTCCTTGGAGAATGAGTCTATTAAGAGGAC
GTCTCGAGATGGAGTCAATCGAGATCTCACTGAGGCTGTTCTCGACTTCCAGGAGAAACACTAATCACTGACAA
AGAAGTTATTTACATATGTCCTTTCAATGGCCCCATTAAGGGAAGAGTTTACATCACAAATTATCGTCTTTATTT
AAGAAGTTTGGAAACGGATTCTTCTCTAATACTTGATGTTCTCTGGGTGTGATCTCGAGAATTGAAAAAATGGG
AGGCGCGACAAGTAGAGGAGAAAATTCCTATGGTCTAAATATTACTTGTAAGACATGAGAAACCTGAGGTTTCGC
TTTGAAACAGGAAGGCCACAGCAGAAGAGATATGTTTGAGATCCTCACGAGATACGCGTTTCCCCTGGCTCACAG
TCTGCCATTATTTGCATTTTTAAATGAAGAAAAGTTTAACGTGGATGGATGGACAGTTTACAATCCAGTGGAAGA
ATACAGGAGGCAGGGCTTGCCCAATCACCATTGGAGAATAACTTTTTATTAATAAGTGCTATGAGCTCTGTGACAC
TTACCCTGCTCTTTTGGTGATTCCGTATCGTGCCTCAGATGATGACCTCAGGAAGTTGCAACTTTTAGGTCCCGA
AATCGAATTCAGTGCTGTGATGGATTCATCCAGAAAATAAGACGGTCATTGTGCGTTGCAGTCAGCCTCTTGTC
GGTATGAGTGGGAAACGAAATAAAGATGATGAGAAATATCTCGATGTTATCAGGGAGACTAATAAACAAATTTCT
AAACTCACCATTTATGATGCAAGACCCAGCGTAAATGCAGTGGCCAACAAGGCAACAGGAGGAGGATATGAAAGT
GATGATGCATATCATAACGCCGAACCTTTCTTCTTAGACATTCTATAATATTATGTTATGCGGGAATCTTTAAAA
AAAGTGAAGGACATTGTTTATCCTAATGTAGAAGAATCTCATTGGTTGTCCAGTTTGGAGTCTACTCATTGGTTA
GAACATATCAAGCTCGTTTTGACAGGAGCCATTCAAGTAGCAGACAAAGTTTCTTCAGGGAAGAGTTTCAGTGCTT
GTGCATTGCAGTGACGGATGGGACAGGACTGCTCAGCTGACATCCTTGGCCATGCTGATGTTGGATAGCTTCTAT
AGGAGCATTGAAGGGTTGAAAATACTGGTACAAAAAGAAATGGATAAGTTTTGGACATAAAATTTGCATCTCGAATA
GGTCATGGTGATAAAAAACCACACCGATGCTGACCCTTCTCCTATTTTTCTCCAGTTTATTGATTGTGTGTGGCAA
ATGTCAAAACAGTTCCCTACAGCTTTTGAATTCAATGAACAATTTTTGATTATAATTTTGATCATCTGTATAGT
TGCCGATTTGGTACTTTCTTATTCAACTGTGAATCTGCTCGAGAAAGACAGAAGGTTACAGAAAGGACTGTTTCT
TTATGGTCACTGATAAACAGTAATAAAGAAAAAATTCAAAAACCCCTTCTATACTAAAGAAATCAATCGAGTTTAA
TATCCAGTTGCCAGTATGCGTCACTTGGAACCTCTGGGTGAATTACTACATTAGATGGAACCCAGGATCAAGCAA
CAACAGCCGAATCCAGTGGAGCAGCGTTACATGGAGCTCTTAGCCTTACGCGACGAATACATAAAGCGGCTTGAG
GAACTGCAGCTCGCCAACTCTGCCAAGCTTTCTGATCCCCCAACTTCACCTTCCAGTCCTTCGCAAATGATGCC
CATGTGCAAACTCACTTCTGAGGGGGGACCCTGGCACCGCATTAGAGCTCGAAATAAAGGCGATAGCTGACTTTC
ATTTGGGGCATTGTGAAAAAGTAGATTAAAAATATTTGCCTCCATGTAGAAGTTGAAGTAACTAATCTTAACTC
TTGAATATGTGCTTCTAGAATACATATTACAAGAAAACACAGGGTCCACACGGCAATCAGAAGAAAGGAGCTG
AGATGAGGTTTTTGAAAACCCCTGACACCTTTAAAAAGCAGTTTTTGAAAGACAAAATTTAGATTTAATTTACGTC
TTGAGAAATACTATATATACAAATATATTTTTGTGGGCTTAATTGAAACAACATTATTTTAAATCAAAGGGGAT
ATATGTTTGTGGAATGGATTTTCTGAAGCTGCTTAACAGTTGCTTTGGATTCTCTAAGATGAATCCAAATGTGA
AAGATGCATGTTACTGCCAAAACCAAATTGAGCTCAGCTTCTTAGGCATTACCCAAAAGCAAGGTGTTAAGTAA
TTGCCAGCTTTTATACCATCATGAGTGGTGACTTAAGGAGAAATAGCTGTATAGATGAGTTTTTCATTATTTGGA
AATTTAGGGGTAGAAAATGTTTTCCCCTAATTTTCCAGAGAAGCCTATTTTTATATTTTAAAAAACTGACAGGG
CCCAGTTAAATATGATTTGCATTTTTTAAATTTGCCAGTTTTATTTTCTAAATCCTTCATGAGCTTGCCTAAAA
TTCGGAATGGTTTTCGGGTTGTGGCAAACCCCAAAGAGAGCACTGTCCAAGGATGTCGGGAGCATCCTGCTGCTT
AGGGGAATGTTTTCGCAAATGTGCTCTAGTCAGTCCAGCTCATCTGCCAAAATGTAGGGCTACCGTCTTGATG
CATGAGCTATTGCTAGAGCATCATCCTTAGAAATCAGTGCCCCAGATGTACATGTGTTGAGCGTATTCTTGAAG
TATTGTGTTTATGCATTTCAATTTCAATGGTGTGGCTTCCCCTCCCCACCCACGCGTGCATAAAAACTGGTTC
TACAAATTTTTACTTGAAAGTACCAGGCCGTTTGCTTTTTTTCAGGTTGTTTTGTTTTATAGTATTAAGTGAAATTT
AAATGCACAGTTCTATTTGCTATCTGAACAAATTCATTTATTAAGTATATTTGTAAAAGCTAAGGCTCGAGTTAA
AACAAATGAAGTGTTTTACAATGATTTGTAAAGGACTATTTATAACTAATATGGTTTTGTTTTCAATGAATTAAGA
AAGATTAAATATATCTTTGTAAATTTATTTATGTCATAGTTTAATTGGTCTACCAAGTAAGACATCTCAAATACA
GTAGTATAATGTATGAATTTTGTAAAGTATAAGAAATTTTATTAGACATTCTCTTACTTTTTGTAAATGCTGTAAA
TATTTTCAATAAATAACAAAGTGTCACTCCATAAAAAGAAAGCTAATACTAATAGCCTAAAAGATTTTGTGAAAT
TCATGAAAACCTTTTTAATGGCAATAATGACTAAAGACCTGCTGTAATAAATGTATTAACTGAAACCT

6829/6881
FIGURE 6311

GAGATTCTCGCCCTGAGCAACGAGCGACGGCCTGACGTGGGCGGAGGGAAGCCGGCCCCAGGCTCGGTGAGGAGGC
AAGGTTCTGAGGGGACAGGCTGACCTGGAGGACCAGAGGCCCCGGAGGAGCACTGAAGGAGAAGATCTGCCAGT
GGGTCTCCATTGCCAGCTCCTGCCCACACTCCCGCCTGTTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGA
GGAGTCAGCACTGCAAGCCTGAAGAAGGCCTTGAGGCCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTC
CTGCTACTGAGGAGCAGGAGGCTGCCTCCTCCTCTTCTACTCTAGTTGAAGTCACCCCTGGGGGAGGTGCCTGCTG
CCGAGTCACCAGATCCTCCCCAGAGTCCTCAGGGAGCCTCCAGCCTCCCCACTACCATGAACCTACCCTCTCTGGA
GCCAATCCTATGAGGACTCCAGCAACCAAGAAGAGGAGGGGCCAAGCACCTTCCCTGACCTGGAGTCTGAGTTCC
AAGCAGCACTCAGTAGGAAGGTGGCCAAGTTGGTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCA
CAAAGGCAGAAATGCTGGGGAGTGTGTCGCGAAATTGGCAGTACTTCTTTCTGTGATCTTCAGCAAAGCTTCCG
ATTCTTGCAGCTGGTCTTTGGCATCGAGCTGATGGAAGTGGACCCCATCGGCCACGTGTACATCTTTGCCACCT
GCCTGGGCCTCTCCTACGATGGCCTGCTGGGTGACAATCAGATCATGCCCAAGACAGGCTTCCCTGATAATCATCC
TGGCCATAATCGCAAAAGAGGGCGACTGTGCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTGTGTTAGAGGTGT
TTGAGGGGAGGGAAGACAGTATCTTCGGGGATCCCAAGAAGCTGCTCACCCAATATTTCTGTCAGGAAAACCTACC
TGGAGTACCGGCAGGTCCCCGGCAGTGATCCTGCATGCTATGAGTTCTGTGGGGTCCAAGGGCCCTCATTGAAA
CCAGCTATGTGAAAGTCCTGCACCATATGGTAAAGATCAGTGGAGGACCTCGCATTTCCTACCCACTCCTGCATG
AGTGGGCTTTGAGAGAGGGGGAAGAGTGAAGTCTGAGCACGAGTTGCAGCCAGGGCCAGTGGGAGGGGGTTTGGGC
CAGTGCACCTTCCGGGGCCCCATCCCTTAGTTTCCACTGCCTCCTGTGACGTGAGGCCCATCTTCACTCTTTGA
AGCGAGCAGTCAGCATTCCTTAGTAGTGGGTTTCTGTTCTGTTGGATGACTTTGAGATTATCTTTGTTTCTGT
GGAGTTGTTCAAATGTTCCTTTTAACGGATGGTTGAATGAGCGTCAGCATCCAGGTTTATGAATGACAGTAGTCA
CACATAGTGCTGTTTATATAGTTTAGGAGTAAGAGTCTTGTTTTTTATTCAGATTGGGAAATCCATTCCATTTG
TGAATTGTGACATAATAATAGCAGTGGAAAAAGTATTGCTTAAATTTGTGAGCGAATTAGCAATAACATACATG
AGATAACTCAAGAAATCAAAAGATAGTTGATTCTTGCTTGTACCTCAATCTATTCTGTAAAATTAACAAATAT
GCAAACCAGGATTTCCCTTGACTTCTTTGAGAATGCAAGCGAAATTAAATCTGAATAAATAATTCTTCCTCTTC

6830/6881
FIGURE 6312

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTLGEVPAAESPDPPQSPQGASSLPTTM
NYPLWSQSYEDSSNQEEEGPSTFPDLESEFQAALSRKVAKLVHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVI
FSKASDSLQLVFGIELMEVDPIGHVYIFATCLGLSYDGLLDNQIMPKTGFLIIILAIIAKEGDCAPEEKIWEEL
SVLEVFEGREDSIFGDPKKLLTQYFVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHMVKISGGPRIS
YPLLHEWALREGEE

6831/6881
FIGURE 6313

CGGCCTGACGTCGGCGGAGGGAAGCAGGCGCAGGCTCCGTGAGGAGGCAAGGTTCTGAGGGGGACAGGCTGACAA
GTAGGACCCGAGGCACTGGAGGAGCATTGAAGGAGAAGATCTGCCTGTGGGTCTTCATTGCCCAGCTCCTGCCCC
CACTCCTGCCTGCTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAG
GCCTTGAGGCCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGCAGACCGCTT
CTTCCTCTTCTACTCTAGTGGAAGTTACCCCTGGGGGAGGTGCCTGCTGCCGACTCACCGAGTCTCCCCACAGTC
CTCAGGGAGCCTCCAGCTTCTCGACTACCATCAACTACACTCTTTGGAGACAATCCGATGAGGGCTCCAGCAACC
AAGAAGAGGAGGGGCCAAGAATGTTTCCCGACCTGGAGTCCGAGTTCCAAGCAGCAATCAGTAGGAAGATGGTTG
AGTTGGTTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCACAAAGGCAGAAATGCTGGAGAGTGTCC
TCAGAAATTGCCAGGACTTCTTTCCCGTGATCTTCAGCAAAGCCTCCGAGTACTTGCAGCTGGTCTTTGGCATCG
AGGTGGTGGAAGTGGTCCCCATCAGCCACTTGTACATCCTTGTACCTGCCTGGGCCTCTCCTACGATGGCCTGC
TGGGCGACAATCAGGTCATGCCCAAGACAGGCCTCCTGATAATCGTCTTGCCATAATCGCAATAGAGGGCGACT
GTGCCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTATGTTGGAGGTGTTTGAGGGGAGGGAGGACAGTGTCTTCG
CACATCCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAAAACCTACCTGGAGTACCGGCAGGTGCCCCGGCAGTG
ATCCTGCATGCTACGAGTTCTGTGGGGTCCAAGGGCCCTCATTGAAACCAGCTATGTGAAAGTCTTGCACCATA
CACTAAAGATCGGTGGAGAACCTCACATTTCTACCCACCCCTGCATGAACGGGCTTTGAGAGAGGGAGAAGAGT
GAGTCTCAGCACATGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGCCAGTGACCTTCCAGGGCCCCATCCAT
TAGCTTCCACTGCCTCGTGTGATATGAGGCCCATTCCTGCCTCTTTGAAGAGAGCAGTCAGCATTCTTAGCAGTG
AGTTTCTGTTCTGTTGGATGACTTTGAGATTTATCTTTGTTTCTGTTGGAATTGTTCAAATGTTCTTTTAACA
AATGGTTGGATGAACTTCAGCATCCAAGTTTATGAATGACAGTAGTCACACATAGTGCTGTTTATATAGTTTAGG
GGTAAGAGTCTGTTTTTTATTTCAGATTGGGAAATCCATTCCATTTTGTGAGTTGTACATAATAACAGCAGTGG
AATATGTATTTGCCTATATTGTGAACGAATTAGCAGTAAAATACATGATACAAGGAACTCAAAAGATAGTTAATT
CTTGCCTTATACCTCAGTCTATTATGTAAAAATTAAAAATATGTGTATGTTTTTGCTTCTTTGAGAATGCAAAAGA
AATTAAATCTGAATAAATAA

6832/6881

FIGURE 6314

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQQTASSSSTLVEVTLGEVPAADSPSPPHSPQGASSFSTTI
NYTLWRQSDEGSSNQEEEGPRMFPDLESEFQAAISRKMVELVHFLLLKYRAREPVTKAEMLESVLRNCQDFFPVI
FSKASEYLQLVFGIEVVEVVPISHLYILVTCLGLSYDGLLDNQVMPKTGLLIIVLAI IAIEGDCAPEEKIWEEL
SMLEVFEGREDSVFAHPRKLLMQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHTLKIGGEPHIS
YPPLHERALREGEE

6833/6881
FIGURE 6315

CGGCCTGACGTCGGCGGAGGGAAGCAGGCGCAGGCTCCGTGAGGAGGCAAGGTTCTGAGGGGGACAGGCTGACAA
GTAGGACCCGAGGCACTGGAGGAGCATTGAAGGAGAAGATCTGCCTGTGGGTCTTCATTGCCCAGCTCCTGCCCCG
CACTCCTGCCCTGCTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAG
GCCTTGAGGCCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGCAGACCGCTT
CTTCCTCTTCTACTCTAGTGGAAGTTACCCTGGGGGAGGTGCCTGCTGCCGACTCACCGAGTCCTCCCCACAGTC
CTCAGGGAGCCTCCAGCTTCTCGACTACCATCAACTACACTCTTTGGAGACAATCCGATGAGGGCTCCAGCAACC
AAGAAGAGGAGGGGCCAAGAATGTTTCCCGACCTGGAGTCCGAGTTCCAAGCAGCAATCAGTAGGAAGATGGTTG
AGTTGGTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCACAAAGGCAGAAATGCTGGAGAGTGTCC
TCAGAAATTGCCAGGACTTCTTTCCCGTGATCTTCAGCAAAGCCTCCGAGTACTTGACAGCTGGTCTTTGGCATCG
AGGTGGTGAAGTGGTCCCCATCAGCCACTTGTACATCCTTGTACCTGCCTGGGCCTCTCCTACGATGGCCTGC
TGGGCGACAATCAGGTCATGCCCAAGACAGGCCTCCTGATAATCGTCCTGGCCATAATCGCAATAGAGGGCGACT
GTGCCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTATGTTGGAGGTGTTTGAGGGGAGGGAGGACAGTGTCTTCG
CACATCCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAAAACCTACCTGGAGTACCGGCAGGTGCCCCGCGAGTG
ATCCTGCATGCTACGAGTTCCTGTGGGGTCCAAGGGCCCTCATTGAAACCAGCTATGTGAAAGTCTTCGACCATA
CACTAAAGATCGGTGGAGAACCTCACATTTCTACCCACCCCTGCATGAACGGGCTTTGAGAGAGGGAGAAGAGT
GAGTCTCAGCACATGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGCCAGTGACCTTCAGGGCCCCATCCAT
TAGCTTCCACTGCCTCGTGTGATATGAGGCCCATTCCTGCCTCTTTGAAGAGAGCAGTCAGCATTCTTAGCAGTG
AGTTTCTGTTCTGTTGGATGACTTTGAGATTTATCTTTGTTTCTGTTGGAATTGTTCAAATGTTTCTTTTAACA
AATGGTTGGATGAACTTCAGCATCCAAGTTTATGAATGACAGTAGTCACACATAGTGCTGTTTATATAGTTTAGG
GGTAAGAGTCCTGTTTTTTTATTAGATTGGGAAATCCATTCCATTTTGTGAGTTGTACATAATAACAGCAGTGG
AATATGTATTTGCCTATATTGTGAACGAATTAGCAGTAAAATACATGATACAAGGAACCAAAAGATAGTTAATT
CTTGCCTTATACCTCAGTCTATTATGTAAAATTAAAAATATGTGTATGTTTTTGCTTCTTTGAGAATGCAAAAGA
AATTAAATCTGAATAAATAA

6834/6881
FIGURE 6316

GAGATTCTCGCCCTGAGCAACGAGCGACGGCCTGACGTGGCGGAGGGGAAGCCGGGCCAGGCTCGGTGAGGAGGC
AAGGTTCTGAGGGGACAGGCTGACCTGGAGGACCAGAGGCCCCGGAGGAGCACTGAAGGAGAAGATCTGCCAGT
GGGTCTCCATTGCCAGCTCCTGCCACACTCCCGCCTGTTGCCCTGACCAGAGTCATCATGCTCTTGAGCAGA
GGAGTCAGCACTGCAAGCCTGAAGAAGGCCTTGAGGCCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTC
CTGCTACTGAGGAGCAGGAGGCTGCCTCCTCCTCTTCTACTCTAGTTGAAGTCACCTGGGGGAGGTGCCTGCTG
CCGAGTCACCAGATCCTCCCCAGAGTCCTCAGGGAGCCTCCAGCCTCCCCACTACCATGAACCTACCTCTCTGGA
GCCAATCCTATGAGGACTCCAGCAACCAAGAAGAGGAGGGGCCAAGCACCTTCCCTGACCTGGAGTCCGAGTTCC
AAGCAGCACTCAGTAGGAAGGTGGCCGAGTTGGTTCATTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCA
CAAAGGCAGAAATGCTGGGGAGTGTCTCGTGGAAATGGCAGTATTTCTTTCTGTGATCTTCAGCAAAGCTTCCA
GTTCTTGTCAGCTGGTCTTTGGCATCGAGCTGATGGAAGTGGACCCCATCGGCCACTTGTACATCTTTGCCACCT
GCCTGGGCCTCTCCTACGATGGCCTGCTGGGTGACAATCAGATCATGCCCAAGGCAGGCCTCCTGATAATCGTCC
TGGCCATAATCGCAAGAGAGGGCGACTGTGCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTGTGTTAGAGGTGT
TTGAGGGGAGGGGAAGACAGTATCTTGGGGGATCCCAAGAAGCTGCTCACCCAACATTTCTGTCAGGAAAACCTACC
TGGAGTACCGGCAGGTCCCCGGCAGTGATCCTGCATGTTATGAATTCCTGTGGGGTCCAAGGGCCCTCGTTGAAA
CCAGCTATGTGAAAGTCCTGCACCATATGGTAAAGATCAGTGGAGGACCTCACATTTCTACCCACCCCTGCATG
AGTGGGTTTTGAGAGAGGGGGAAGAGTCAGTCTGAGCACGAGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGC
CAGTGCACCTTCCGGGGCCGCATCCCTTAGTTTCCACTGCCTCCTGTGACGTGAGGCCCATTTCTTCACTCTTTGA
AGCGAGCAGTCAGCATTCTTAGTAGTGGGTTTCTGTTCTGTTGGATGACTTTGAGATTATTCTTTGTTTCTGTT
GGAGTTGTTCAAATGTTCTTTTAAACGGATGGTTGAATGAGCGTCAGCATCCAGGTTTATGAATGACAGTAGTCA
CACATAGTGTGTTTATATAGTTTAGGAGTAAGAGTCTTGTTTTTACTCAAATTGGGAAATCCATTCCATTTTG
TGAATTGTGACATAATAATAGCAGTGGTAAAAGTATTTGCTTAAATTTGTGAGCGAATTAGCAATAACATACATG
AGATAACTCAAGAAATCAAAGATAGTTGATTCTTGCTTGTACCTCAATCTATTCTGTAAAATTAAACAAATAT
GCAAAACCAGGATTTCTTGACTTCTTTGAGAATGCAAGCGAAATTAAATCTGAATAAATAATTCTTCTCTCCAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6835/6881
FIGURE 6317

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTLGEVPAAESPDPPQSPQGASSLP TTM
NYPLWSQSYEDSSNQEEGPSTFPDLESEFQAALSRKVAELVHFLLK YRAREPVTKAEMLGSVVGNWQYFFPVI
FSKASSSLQLVFGIELMEVDPIGHLYIFATCLGLSYDGLLDNQIMP KAGLLIIVLAI IAREGDCAPEEKIWEEL
SVLEVFEGREDSILGDPKKLLTQHFVQENYLEYRQVFGSDPACYEFLWGP RALVETSYVKVLHMHMVKISGGPHIS
YPPLHEWVLREGEE

6836/6881
FIGURE 6318

GAGCAGCGCGGCTGACGGGACCAAGGCGGCGGGAGTCTGCGGTCGTTCCCTCGGCTGTGGACCGGGCGGCACGC
ACGCGGTGCAGGGTAACATGGCGGATGCGGAAGTAATTATTTTGCCAAAGAAACATAAGAAGAAAAAGGAGCGGA
AGTCATTGCCAGAAGAAGATGTAGCCGAAATACAACACGCTGAAGAATTTCTTATCAAACCTGAATCCAAAGTTG
CTAAGTTGGACACGTCTCAGTGGCCCCCTTTTGCTAAAGAATTTTGATAAGCTGAATGTAAGGACAACACACTATA
CACCTCTTGCATGTGGTTCAAATCCTCTGAAGAGAGAGATTGGGGACTATATCAGGACAGGTTTCATTAAATCTTG
ACAAGCCCTCTAACCCTCTTCCCATGAGGTGGTAGCCTGGATTGACGCGATACTTCGGGTGGAGAAGACAGGGC
ACAGTGGTACTCTGGATCCCAAGGTGACTGGTTGTTTAATCGTGTGCATAGAACGAGCCACTCGCTTGGTGAAGT
CACAACAGAGTGCAGGCAAAGAGTATGTGGGGATTGTCCGGCTGCACAATGCTATTGAAGGGGGGACCCAGCTTT
CTAGGGCCCTAGAACTCTGACAGGTGCCTTATTCAGCGACCCCACTTATTGCTGCAGTAAAGAGGCAGCTCC
GAGTGAGGACCATCTACGAGAGCAAAATGATTGAATACGATCCTGAAAGAAGATTAGGAATCTTTTGGGTGAGTT
GTGAGGCTGGCACCTACATTCCGACATTATGTGTGCACCTTGGTTTGTATTGGGAGTTGGTGGTCAGATGCAGG
AGCTTCGGAGGGTTTCGTTCTGGAGTCATGAGTGAAAAGGACCACATGGTGACAATGCATGATGTGCTTGATGCTC
AGTGGCTGTATGATAACCACAAGGATGAGAGTTACCTGCGGCGAGTTGTTTACCCTTTGGAAAAGCTGTTGACAT
CTCATAAACGGCTGGTTATGAAAGACAGTGCAGTAAATGCCATCTGCTATGGGGCCAAGATTATGCTTCCAGGTG
TTCTTCGATATGAGGACGGCATTGAGGTCAATCAGGAGATTGTGGTTATCACCACCAAAGGAGAAGCAATCTGCA
TGGCTATTGCATTAATGACCACAGCGGTCTCTTACCTGCGACCATGGTATAGTAGCCAAGATCAAGAGAGTGA
TCATGGAGAGAGACACTTACCCTCGGAAGTGGGGTTTAGGTCCAAAGGCAAGTCAGAAGAAGCTGATGATCAAGC
AGGGCCTTCTGGACAAGCATGGGAAGCCCACAGACAGCACACCTGCCACCTGGAAGCAGGAGTATGTTGACTACA
GTGAGTCTGCCAAAAAAGAGGTGGTTGCTGAAGTGGTAAAAGCCCCGCAGGTAGTTGCCGAAGCAGCAAAAACTG
CGAAGCGGAAGCGAGAGAGTGAGAGTGAAAGTGACGAGACTCCTCCAGCAGCTCCTCAGTTGATCAAGAAGGAAA
AGAAGAAGAGTAAGAAGGACAAGAAGGCCAAAGCTGGTCTGGAGAGCGGGGCCGAGCCTGGAGATGGGGACAGTG
ATACCACCAAGAAGAAGAAGAAGAAGAAGGAAAGCAAAAGAGGTAGAATTGGTTTCTGAGTAGTGAAGGCCACTTG
AAGCTGGAGGAGAACTAAAGCCTTATTGAGAAAACATGTTATAGATCCTTTTGTGCTGAGAGAGTGGAACATA
GGTCTTAGACAGGGTGAAGAGTTCTGGCACATTTTAGCTGCTACTTTGAGACCTCGGTGATGTTACCTGGTGTGG
TCATCCCATCTTGTCTCTGTTTAAAGGATATGGGTGGTGAAAGATGAAAGAGGCAGAGTTTATCCCAATGACTTCT
CTGTTTGAGTTGGGAAGCCTCACCTTCAGACCCAGTAACTGTCCGCAGCTGTCTGCTAGTGGTTGTCTTAACATC
GTAGTCCTAGTTTGCATTTTTTAAATCCCCTCTGTTTAAAAGGTTTGTAAAACAAAAACAAAAAATAAGTCTGC
TCAGTGAAATGCTGTAGAACCCTAAATAAGTGGTAGAAGAGTGTCACTGAATTTTGTCTCTGAATTCAGTATAAC
TGAGTTTTGTCCATGCTGGTGTCTGGGTTATAGGCCTGATGGGCCTGGTAGTTTTCCATCTTGTCTGGCCTAGA
GGTCAGTCCTTTGCACCTCCTCAAAGCTTGTGTACAGTGCTCACCTAAATCCATCTGACTACTTGTTCCTGTGCC
CTCTTGTTTTAGGCCTCGTTTACTTTTAAAAAATGAAATTGTTTATTGCTGGGAGAAGAATGTTGTAATTTTAC
TTATTAAAGTCAACTTGTAAAGTTTTTATGTATTCTGTTGGGTTTTCTTGTGATCTCATGTAGCAGAGCAA
AAATTGTAAATATTTTGATTAAAAATCTAGGGACCTTTATGTCCTATTTGGAATTCGATATCAA

6837/6881
FIGURE 6319

MADAEVIILPKKHKKKKERKSLPEEDVAEIQHAEEFLIKPESKVAKLDTSQWPLLLKNFDKLNVRTTHYTPLACG
SNPLKREIGDYIRTGFINLDKPSNPSSHEVVAWIRRIILRVEKTGHSGTLDPKVTGCLIVCIERATRLVKSQQSAG
KEYVGIVRLHNAIEGGTQLSRALETLTGALFQRPPLIAAVKRQLRVRTIYESKMIEYDPERRLGIFWVSCEAGTY
IRTL CVHLGLLLGVGGQMQLRRVRSVGMSEKDHMTMHDVLD AQWLYDNHKDESYLRRVVYPLEKLLTSHKRLV
MKDSAVNAICYGAKIMLPGLVRYEDGIEVNQEIVVITTKGEAICMAIALMTTAVISTCDHGIVAKIKRVIMERDT
YPRKWGLGPKASQKKLMIKQGLLDKHGKPTDSTPATWKQEYVDYSESAKKEVVAEVVKAPQVVAEAAKTAKRKRE
SESESEDETPPAAPQLIKKEKKKSKDKKAKAGLESGAEFGDGDSDTTKKKKKKKKAKEVELVSE

6838/6881
FIGURE 6320

AGGGACAGCCCAGAGGAGGCGTGGCCACGCTGCCGGCGGAAGTGGAGCCCTCCGCGAGCGCGAGGGCCGCCGGG
GCAGGCGGGGAAACCGGACAGTAGGGGCGGGGCCGGGCCGGCGATGGGGATGCGGGAGCACTACGCGGAGCTGCA
CCCGTGCCCGCCGGAATTGGGGATGCAGAGCAGCGGCAGCGGGTATGGCAGGCAGCCGGCGGGGCCGGCCTCCAGC
GCAGGTGCCCAGAGAGGAGGGGCTGGCCTGGGATGCGCGCGCACCTGCCCTCGCCCCGCCCGCCCGCACGAGGG
GTGGTGGCCGAGGCCCCGCCCGCACGCTCGCCTGAGGCGGGTCCGCTCAGCCCAGGCGCCCGCCCCGCCCGC
GCCGATTAAATGGGCCGGCGGGGCTCAGCCCCCGAAACGGTCGTACACTTCGGGGCTGCGAGCGCGGAGGGCGA
CGACGACGAAGCGCAGACAGCGTCATGGCAGAGCAGGTGGCCCTGAGCCGACCCAGGTGTGCGGGATCCTGCGG
GAAGAGCTTTTCCAGGGCGATGCCTTCCATCAGTCGGATACACACATATTCATCATCATGGGTGCATCGGGTGAC
CTGGCCAAGAAGAAGATCTACCCACCATCTGGTGGCTGTTCCGGGATGGCCTTCTGCCCCGAAAACACCTTCATC
ATGGGCTATGCCCGTTCCCGCCTCACAGTGGCTGACATCCGCAAACAGAGTGAGCCCTTCTTCAAGGCCACCCCA
GAGGAGAAGCTCAAGCTGGAGGACTTCTTTGCCCGCAACTCCTATGTGGCTGGCCAGTACGATGATGCAGCCTCC
TACCAGCGCCTCAACAGCCACATGGATGCCCTCCACCTGGGGTCACAGGCCAACCGCCTCTTCTACCTGGCCTTG
CCCCGACCCTCTACGAGGCCGTACCAAGAACATTACAGAGTCTGTCATGAGCCAGATAGGCTGGAACCGCATC
ATCGTGGAGAAGCCCTTCGGGAGGGACCTGCAGAGCTCTGACCGGCTGTCCAACCACATCTCCTCCCTGTTCCGT
GAGGACCAGATCTACCGCATCGACCACTACCTGGGCAAGGAGATGGTGCAGAACCTCATGGTGTGAGATTTGCC
AACAGGATCTTCGGCCCCATCTGGAACCGGGACAACATCGCCTGCGTTATCCTCACCTTCAAGGAGCCCTTTGGC
ACTGAGGGTCGCGGGGGCTATTTGATGAATTTGGGATCATCCGGGACGTGATGCAGAACCACCTACTGCAGATG
CTGTGTCTGGTGGCCATGGAGAAGCCCGCCTCCACCAACTCAGATGACGTCCGTGATGAGAAGGTCAAGGTGTTG
AAATGCATCTCAGAGGTGCAGGCCAACAATGTGGTCTTGGGCCAGTACGTGGGGAACCCCGATGGAGAGGGCGAG
GCCACCAAAGGGTACCTGGACGACCCACCGGTGCCCCGCGGGTCCACCACCGCCACTTTTGCAGCCGTGCTCCTC
TATGTGGAGAATGAGAGGTGGGATGGGGTGCCCTTCATCCTGCGCTGCGGCAAGGCCCTGAACGAGCGCAAGGCC
GAGGTGAGGCTGCAGTTCCATGATGTGGCCGGCGACATCTTCCACCAGCAGTGCAAGCGCAACGAGCTGGTGATC
CGCGTGACGCCCAACGAGGCCGTGTACACCAAGATGATGACCAAGAAGCCGGGCATGTTCTTCAACCCCGAGGAG
TCGGAGCTGGACCTGACCTACGGCAACAGATACAAGAACGTGAAGCTCCCTGACGCCTACGAGCGCCTCATCCTG
GACGTCTTCTGCGGGAGCCAGATGCACTTCGTGCGCAGCGACGAGCTCCGTGAGGCCTGGCGTATTTTACCCCCA
CTGCTGCACCAGATTGAGCTGGAGAAGCCCAAGCCCATCCCCTATATTTATGGCAGCCGAGGCCCCACGGAGGCA
GACGAGCTGATGAAGAGAGTGGGTTTCCAGTATGAGGGCACCTACAAGTGGGTGAACCCCAACAAGCTCTGAGCC
CTGGGCACCCACCTCCACCCCGCCACGGCCACCTCCTTCCCGCCGCCGACCCGAGTCGGGAGGACTCCGGG
ACCATTGACCTCAGCTGCACATTCTTGGCCCCGGGCTCTGGCCACCCTGGCCCCGCCCTCGCTGCTGCTACTACC
CGAGCCCAGCTACATTCTCAGCTGCCAAGCACTCGAGACCATCTTGGCCCCCTCCAGACCCTGCCTGAGCCCAGG
AGCTGAGTCACCTCCTCCACTCACTCCAGCCCAACAGAAGGAAGGAGGAGGGCGCCATTTCGTCTGTCCCAGAGC
TTATTGGCCACTGGGTCTCACTCCTGAGTGGGGCCAGGGTGGGAGGGAGGGACAAGGGGGAGGAAAGGGGCGAGC
ACCCACGTGAGAGAATCTGCCTGTGGCCTTGCCCGCCAGCCTCAGTGCCACTTGACATTCTTGTACACAGCAAC
ATCTCGAGCCCCCTGGATGTCCCCTGTCCACCAACTCTGCACTCCATGGCCACCCCGTGCCACCCGTAGGCAGC
CTCTCTGCTATAAGAAAAGCAGACGCAGCAGCTGGGACCCCTCCCAACCTCAATGCCCTGCCATTAAATCCGCAA
ACAGCC

6839/6881
FIGURE 6321

GAGCTCGCGGGCGACTGCCTGCCAGGCAGACGCTGCAGCTAAGCTGCGCGGTGGCTGTGGCAGGTGAGAGCCTCC
GGAAGGGAGGCGGCCTCTGGCCCCGACCCTGCTCCGCGATCGCCCACTCGGGCGCCCGGCCGGGCCTGGCAGGGA
AGGGCCGCGCCGCGCCGCGCGTTTTGCGAGGCCTGGCGGGGCCGCGGGGCCAGGAATGGCGTAAGGGGCCCCC
CCAGACTCCGAGACGGCCCCGAGCGGGTTCGCCGGCTGTGGGACGGCGGGCGTGCCCTTCCTTTCCCTCCCTCCAGGT
TCGCGCCCGAGCTCTGCTAGCCACCCGTCCGACAACCTTCCGGACTCCCAGGGACAGCCCTGCCATCAAGGAAGAC
AGCACAGGACTGGGACCCACCCATGAACCCCTTCTCAGGACAACCCAACAGCACCAGTGGGGATGTTCTCCTAAGC
CGCAGAGGGCCTGGGCACGCCATCCGTCCTCCAGGAAGAGCCATGGTGTTAATGCAGGACAAGGGCAGCTCTCAG
CAGTGGCCTGGTCTGGGGGGCGAGGGTGGTGGCACAGGTCCCTTAAGCATGCTCAGAGCTGCCCTGCTGCTCATC
AGCCTGCCATGGGGGGCCCAAGGGACAGCCAGCACCAGCCTCAGCACTGCTGGGGGTACACCCGTGCCACCGACT
GGGGGCCGCTACTTGAGCATTGGAGATGGCTCTGTGATGGAGTTTGAGTTTCCTGAGGACAGTGAGGGCATCATC
GTGATCTCCAGCCAGTACCCAGGCCAGGCCAACAGGACGGCGCCTGGCCCCATGCTCAGGGTCACCTCCCTGGAC
ACAGAGGTGCTGACCATCAAGAACGTGAGTGCTATAACCTGGGGAGGCGGGGGTGGCTTTGTGGTGAGCATCCAC
TCAGGCCTGGCTGGGCTGGCCCCACTCCACATCCAGCTCGTGACGCCCATGAGGCCCCGCCACACTGATTGAG
GAGCGGAGAGACTTCTGCATCAAGGTCTCACCTGCTGAAGACACGCCTGCCACCCTCAGCGCCGACCTGGCCCCAC
TTCTCGGAAAACCCAATCCTCTACCTGCTCCTGCCTCTTATCTTTGTCAACAAGTGTTCGTTTGGGTGCAAAGTG
GAACTCGAGGTTCTGAAGGGGCTCATGCAGAGCCCCCAGCCCATGCTGCTGGGCCTCCTGGGCCAGTTTCTGGTC
ATGCCCTTGTACGCTTTCCTCATGGCCAAGGTCTTCATGCTGCCCAAGGCCCTGGCTCTGGGCCTCATCATCACC
TGCTCGTCGCTGGCGGGCGGGGGAGCTACCTCTTCAGCCTCCTTCTTGGAGGGGACGTCACCCTGGCCATCTCC
ATGACTTTCCTCTCTACGGTGGCTGCCACTGGCTTCTTGCCCTGTCTTCGGCCATCTACAGCCGCCTGCTCAGC
ATCCATGAGACGCTCCACGTGCCCATCTCCAAGATCCTGGGGACCCTGCTGTTTATTGCCATCCCCATAGCCGTG
GGCGTGCTGATCAAGTCCAAGCTCCCCAAGTTCTCCCAGCTGCTGCTGCAGGTGCTCAAGCCCTTCAGCTTTGTG
CTCCTCCTGGGCGGCCTCTTCCTGGCCTATCGCATGGGGGTCTTCATCCTGGCAGGCATCCGGCTACCCATCGTA
CTGGTGGGTATCACGGTGGCCCTGGTTGGCCTGTTGGTGGGCTACTGCCTAGCCACGTGTCTGAAGCTGCCAGTG
GCCCAGCGGCGGACGGTCAGCATTGAGGTAGGGGTGCAGAACAGCCTGCTGGCCTTGGCCATGCTGCAGCTATCC
CTCCGCCGCCTTCAAGCTGACTATGCCTCCCAGGCCCCCTTCATTGTGGCGCTGAGCGGCACCTCCGAGATGCTG
GCCTTGGTCAATTGGCCACTTCATCTACAGCAGCCTGTTCCAGTTCCCTTGAGGCCTCTGGGTCAAGCTTTCATCA
GCCCCAGCCCCACACTCCACCAAAGTTCTCATGCACTATGCACTCAGAAAAATCCAGGCTTATTTTTTTTACTGA
TTTTTTATTCTCCAGCTTTCAGTGCCAAAGAGGCCATGCTGAGTTAGGTAGGTGGGCGCTGCCAGAAAAATATAT
TTCAATAAAAGAGAGAAGCAAGC

6840/6881
FIGURE 6322

MVLMQDKGSSQQWPGLGEGGGGTGPLSMLRAALLISLPWGAQGTASTSLSTAGGHTVPPTGGRYLSIGDGSVME
FEFPEDSEGIIVISSQYPGQANRTAPGPMLRVTS�DTEVLTIKNVSAITWGGGGGFVVSIHSGLAGLAPLHIQLV
DAHEAPPTLIEERRDFCIKVSPAEDTPATLSADLAHFSENPIYLLPLIFVNKCSFGCKVELEVKGMLMQSPQP
MLLGLLGQFLVMPLYAFMAKVFMLPKALALGLIITCSSPGGGGSYLFSLLLGGDVTLAISMTFLSTVAATGFLP
LSSAIYSRLLSIHETLHVPISKILGTLLFIAPIAVGVLIKSKLPKFSQLLLQVVKPFSFVLLLGGLFLAYRMGV
FILAGIRLPIVLVGITVPLVGLLVGYCLATCLKLPVAQRRTVSIIEVGVQNSLLALAMLQLSLRRLQADYASQAPF
IVALSGTSEMLALVIGHFIYSSSLFPVP

6842/6881
FIGURE 6324

MAQYKGAASEAGRAMHLMKKREKQREQMEQMKQRIAEENIMKSNIDKKFSAHYDAVEAELKSSTVGLVTLNDMKA
KQEALVKEREKQLAKKEQSKELQMKLEKLREKERKKEAKRKISSLSFTLEEEEEEGGEEEEEAAMYEEEMEREET
TKKRKLGKNPDVDTSFDPDRDREEEENRLREELRQEWAKQEKIKSEEIEITFSYWDGSGHRRTVKMRKGNTMQQ
FLQKALEILRKDFSELRSAGVEQLMYIKEDLIIPHHSFYDFIVTKARGKSGPLFNFDVHDDVRLLSDATVEKDE
SHAGKVVLRSWYEKNKHIFPASRWEPYDPEKKWDKYTIR

6843/6881
FIGURE 6325

CTTGAACGCCTGACCTCGTATCCACCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCC
CAGCCCATAATTTATTGATTTTTTAAAATTTGTCCAGCCTTCTATTACCACGTCGAATCCATTAGCTACAGCCAT
CCCATGAGAAGCTGAGTGGATTACAGCCCCACCTCCTGCTCAGACCCCTGTCCGAGCACCTCATTGTCCCAACA
GCATTACTGCAGGACCCCCAGGACGTTGGACTGCCAGCTCCCTGGGTCTCCTCCTCTCTGGGGCAGATCCTCAGT
CCTCCCTTGACTTCACGACTGTGGCCAGATCATGTGTGGACTGTCCCTCTCTTTGGGTCTCCAGAGCGCTTGAT
CAAACACCCCTAACTCAGAAGTGTGCAGCCACACTGGGACTCAGAACCCAACAACAGGGACAGAAGACTCACGCC
CTTGGGGTGGCCGGTCTCGTGGCATCAGGCATGACTTCCAGCTCCTGCGCCTTCCCCAGCAACTGCTGACTGGGG
ACCCAGACCGGGAGCTGAGCGACGGGCCTGGCGAGCGAAGCTCGGGGTCTCACTCAGGCACCAGCCCCCTCCTTGC
CCCAGGCTTGAGTGACTCACAGCCCTATTAGGCAGGAGCTGCTCTTCTGGGGTATCGCGATCCACTTAAGGATG
AGGCAGACTTGGTGACAAGCTGGTCTGAGCAGCGCCTCCAGAGCCAGAACTGAGCCCAGTGAGAGCGCACCCCTGG
GGCAGCCTGGATTCTTGGGGTGTCCCGGCAGCCACACACAGCCATGCACTACCCAAGTCACTCCTCTTCTCTCA
TCCTGGCCAATGGGGCCAGGCCTTTCGCATCTGCGCCTTCAATGCCAGCGGCTGACACTGGCCAAGGTGGCCA
GGGAGCAGGTGATGGACACCTTAGTTTCGGATACTGGCTCGCTGTGACATCATGGTGTGTCAGGAGGTGGTGGACT
CTTCCGGCAGCGCCATCCCGCTCCTGCTTCGAGAACTCAATCGATTTGATGGCTCTGGGCCCTACAGCACCCCTGA
GCAGCCCCCAGCTGGGGCGCAGCACCTACATGGAGACGTATGTGTACTTCTATCGGTACACAAAAACAGGTCC
TGAGTTCCTACGTGTACAACGATGAGGATGACGTCTTTGCCCGGGAGCCATTGTGGGCCAGTTCTCTTTGCCCA
GCAATGTCCTTCCAGCCTGGTGTGGTCCCGCTGCACACCACTCCTAAGGCCGTAGAGAAGGAGCTGAACGCCC
TCTACGATGTGTTTCTGGAGGTCTCCAGCACTGGCAGAGCAAGGACGTGATCCTGCTTGGGGACTTCAATGCTG
ACTGCGCTTCACTGACCAAAAAGCGCCTGGACAAGCTGGAGCTGCGGACTGAGCCAGGCTTCCACTGGGTGATTG
CCGATGGGGAGGACACCACAGTGCGGGCCAGCACCACTGCACCTATGCCCGCGTCTGCTGCACGGGGAGCGCT
GCCGGAGTCTGCTGCACACTGCGGCTGCCTTTGACTTCCCCACGAGCTTCCAGCTCACCGAGGAGGAGGCCCTCA
ACATCAGTGACCACTACCCCGTGGAGGTGGAGCTGAAGCTGAGCCAGGCGCACAGCGTCCAGCCTCTCAGCCTCA
CTGTTCTGTTGCTGCTATCACTCCTGTCCCTCAGCTGTGCCCTGCTGCCTGAGCGTCCCCCTACCCCCCAGGG
CCTGCTGCCTTTTGGGACTTAAACCCAGCCTCCCCCGTCCATCCAGCCCTGGGGCTGGGGGGCTTCAACTATAG
TTGCCCTGTGACTGTAGTCCACCCCTGCCTGCCTTGTGTTGATTGGCTCTTGTTCCTTTGGTTGGGCTTGTGCCTA
GATTAGGAGAGGAAGCCAGGGGCCCTGCACTCATGCCACCTGCCAGGTAGTGTAGTATCAGGAGTGGAGACAAAG
TGGGCTCTGGGTGGGGTAGGGGAAGGGAGGGTTTCAGAAAGAGGAATGAAGATGTTGTATGACAAGAAGGAAAGT
TACTGAGAACAAAAACCCAGATTGGTGAGATAGGACACTTGTGCAGCAGATATGCCAATGGGCCATGTTTATTGT
GGATTGGTAAGAATCACCAGGAAACCATTAAGCCCCAATAGCTACAAGGAGGGTGGTTAATCTGCTATATCAAAC
TCCTTCCCTGAAACCAGCAAACACCGGGAACATTTTGGCTCATTATAATCCGGTGAACAATGCAGTCAGGCCTG
TTATAACCGCTGAGCAGCCACACTCGCACCTCCTGGGTGCTGTAGTCTGTGTTGGTACAGGCTTCTGCATGCCTG
GTAAAGGTCCAGCCAAGGCTGGTCAAGGCAACATCTCCACACAGAAAATCTGCACCAGTTATGTAAGCTAAAAAG
CTGTGTGAACCCAGGTGTCCGGAAAGGGGCTGCAGGACACAGCAAAATGCCAGCAGCATGCCGGACCCCTCCCT
TCCATCCTCCTCTCAAAGAAGAGAGGTCAAGAAAAACACTGGCTGGGACGCTAGAAGGGTCATGTGTTAACTAT
AATCACATTTATGGTTTGAACCATCACCCCAAGGTAAAAAATAAAGGTATTCCCAGGTATGTTTGGCAA
AATAAAATAAAGGTAATTAAAAACCT

6844/6881
FIGURE 6326

CTCTTTCCCTTCGGTGTGCCACTGAAGATCCTGGTGTGCGCATGGGCCGCCGCCCGCCCGCTTGTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTGCGATTTTTGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTTTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCTT
CTGAAGCCCTGGAGGCTGCCCCGAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTCATCCGCATCAACAAGATGTTGTCTGTGCTGGGGCTGACAGGCTCC
AAACAGGCATGCGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAAGGAGCATGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCTTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
AAAAGCGGCTCATCCAGATGGCTGTGGGGTCAAGTACATCCCCAGTCGTGGCCCTCTGGACAAGTGGCGGGCCC
TGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTACCAATAAATTCTACTTCTGTCCACCTAT
GTCTTTGTATCTACATTCTTGACGGGGAAGGAACCTTCTTGGAACCTTTGGGTCATTGCCCTTCTACTTCAGA
AACAGGTTGACAACCTCAGCCCTGCTCATGAGGCAGCAAACCTGCAAAGGGCTGGGACTGGTGGCCTTATGTCAG
TTGTCTACTCTGGAGCTTGACTTGACCTCCCCAGGTCCTAGGCAGTAGGTTGAAAAACACTGAAGTGCTTTTCA
TGAAGCACAGCTGCAGCAAAGCCTTGCAATCCAGGCTGGGGTCAGCCTACAGTTGTGTTGCTTATTACAACACA
TGCGGACCAAGAGGGGCTTGTGGGCTAGAGGCTGACCAGCAGCGTTTATTTAGCAAGGGTAGGTGTGCATCACAT
TGGGCTTGTCTCACCCATCTGGTTTGGCCATTCTCTCTTGGTGGGAATCATCCAGGTACTGCTGAGGTCACCTG
CGATTTGCCCCATTTCTATCTCTAGCAACCTCTGGGCCCCATGCCCCACCCCTTCTAGAACCTGCATTCCCA
GGGCTTACCACCTGACCAAAGGTCTAGGCTAACCTTTGGTCATTTGTAAACAAGACCTCGGAACAGACACGTGT
GTGGCATGGTTTGGCCTGGGGATCTTAGATGTCTGACCTGAACTATTGTAGAACAGCGCTGGCTTTTGGGGGAGC
AGCAAAAATGAGAGGAGTGCTAGGTGGGTGGCCTGAGCATCTGTATCCAGGGACAGGACTCCAAAGGCTTTTGGT
CCCAGAGCTGGGGTATGTTGGCCCCAGCCCCAGCCTGTGGCTCCCAAAAGGCTCTGGTTTTTTGTAAATCTCAG
TTTACAGCCATTTCTTAGGTTTTTAATTACCTTTATTTTATTTTGCCAAACATACTGGGAATACCTTTTATTTT
TTTTTTACCTTGGGGTGATGGTTCCAAACCATAAATGTGATTATAGTTAACACATGACCCCTCTAGCGTCCCAGC
CAGTGTTTTTCTGACCTCTCTTCTTTGGAGAGGAGGATGGAAGGGAGGGGTCCGGCATGCTGCTGGCATTTTGC
TGTGTCCTGCAGCCCCCTTCCGGGACACCTGGGTTACACAGCTTTTTTAGCTTACATAACTGGTGCAGATTTTCT
GTGTGGAGATGTTGCCTTGACCAGCCTTGGCTGGACTTTACCAGGCATGCAGAAGCCTGTACCAACACAGACTAC
AGCACCAGGAGGTGCGAGTGTGGCTGCTCAGCGGTTATAACAGGCCTGACTGCATTGTTACCGGATTATAATG
AGCCAAAATGTTTCCCGGTGTTTGTGGTTTTCAGGGAAGGAGTTTGATATAGCAGATTAACCACCCTCCTTGTAG
CTATTGGGGCTTAATGGTTTCTTGGTGATTCTTACCAATCCACAATAAACATGGCCCATGGCATATCTGCAAAA
AAAAAAAAAAAAA

6845/6881
FIGURE 6327

MGRRPARYRYCKNKPYPKSRFCRGVPDAKIRIFDLGRKKAKVDEFPLCGHMSDEYEQLSSEALEAARICANKY
MVKSCGKDGFHIRVRLHPFHVIRINKMLSCAGADRLQTGMRGAFGKPQGTVARVHIGQVIMSIRTKLQNKHEVIE
ALRRAKFKFPGRQKIHISKKWGFTKFNADEFEDMVAEKRLIPDGCGVKYIPSRGPLDKWRALHS

6846/6881
FIGURE 6328

CGGCCGGTTTTGGTAGGCCCGGGCCGCCGCCAGGCCTCCGCCTGAGCCCGCACCCGCCATGGACAACCTACGCAGA
TCTTTCGGATACCGAGCTGACCACCTTGCTGCGCCGGTACAACATCCCGCACGGGCCTGTAGTAGGATCAACTCG
TAGGCTTTACGAGAAGAAGATCTTCGAGTACGAGACCCAGAGGCGGCGGCTCTCGCCCCCAGCTCGTCCGCCGC
CTCCTCTTATAGCTTCTCTGACTTGAATTCGACTAGAGGGGATGCAGATATGTATGATCTTCCCAAGAAAGAGGA
CGCTTTACTCTACCAGAGCAAGGGCTACAATGACGACTACTATGAAGAGAGCTACTTCACCACCAGGACTTATGG
GGAGCCCGAGTCTGCCGGCCCGTCCAGGGCTGTCCGCCAGTCAGTGACTTCATTCCCAGATGCTGACGCTTTCCA
TCACCAGGTGCATGATGACGATCTTTTGTCTTCTTCTGAAGAGGAGTGCAAGGATAGGGAACGCCCCATGTACGG
CCGGGACAGTGCCCTACCAGAGCATCACGCACTACCGCCCTGTTTCAGCCTCCAGGAGCTCCCTGGACCTGTCCTA
TTATCCTACTTCCCTCCTCCACCTCTTTTATGTCCTCCTCATCATCTTCCTCTTCATGGCTCACCCGCCGTGCCAT
CCGGCCTGAAAACCGTGCTCCTGGGGCTGGGCTGGGCCAGGATCGCCAGGTCCCGCTCTGGGGCCAGCTGCTGCT
TTTCTGGTCTTTGTGATCGTCCTCTTCTTCAATTTACCACTTCATGCAGGCTGAAGAAGGCAACCCCTTCTAGAG
GGAGCCATGAGGGTCTGGGCTTCAGAGCTAGGTCTTTGGGGAAGTCCTGGCTGACTGCCTTAGCAGTGGGGGTGG
GGGTGGGGGCGAGGGGAGGGGCTTTATGTGTTTTTGTCTGGGGGGCGCTGGGCCTAGCCCAGAGTAGTGCTTGCT
CCCCCTGCCTTGTCACCAGGGAGGCAGCAGACTCAGGCCCTCCATGGTCCTCTTTGTCAATTTGTTGACATGC
ATTCTCCTTTTGTCACTTGTGGGGGGAGGGGATTAACCAAAGGCCACCCTGACTTTGTTTTTGTGGACACAC
AATAAAAGCCCCGTTTATTGT

6847/6881
FIGURE 6329A

CGGATCCGGGCGCCACCCCGGGTCATCGGTCACCGGTCGCTCTCAGGAACAGCAGCGCAACCTCTGCTCCCTGC
CTCGCCTCCCGCGCGCCTAGGTGCCTGCGACTTTAATTAAAGGGCCGTCCCCTCGCCGAGGCTGCAGCACC GCC
CCCCGGCTTCTCGCGCCTCAAATGAGTAGCTCCCACTCTCGGGCGGGCCAGAGCGCAGCAGGCGCGGCTCCGGG
CGGCGGCGTCGACACGCGGGACGCCGAGATGCCGGCCACCGAGAAGGACCTGGCGGAGGACGCGCCGTGGAAGAA
GATCCAGCAGAACACTTTACGCGCTGGTGCAACGAGCACCTGAAGTGGTGAGCAAGCGCATCGCCAACCTGCA
GACGGACCTGAGCGACGGGCTGCGGCTTATCGCGCTGTTGGAGGTGCTCAGCCAGAAGAAGATGCACCGCAAGCA
CAACCAGCGGCCACTTTCCGCCAAATGCAGCTTGAGAACGTGTCGGTGGCGCTCGAGTTCCTGGACCGCGAGAG
CATCAACTGGTGTCCATCGACAGCAAGGCCATCGTGACGGGAACCTGAAGCTGATCCTGGGCCTCATCTGGAC
CCTGATCCTGCACTACTCCATCTCCATGCCCATGTGGGACGAGGAGGAGGATGAGGAGGCCAAGAAGCAGACCCC
CAAGCAGAGGCTCCTGGGCTGGATCCAGAACAAGCTGCCGCAGCTGCCCATACCAACTTCAGCCGGGACTGGCA
GAGCGGCCGGGCCCTGGGCGCCCTGGTGGACAGCTGTGCCCCGGGCCTGTGTCTGACTGGGACTCTTGGGACGC
CAGCAAGCCCGTTACCAATGCGCGAGAGGCCATGCAGCAGGCGGATGACTGGCTGGGCATCCCCAGGTGATCAC
CCCCGAGGAGATTGTGGACCCCAACGTGGACGAGCACTCTGTCTGACCTACCTGTCCCAGTTCCCCAAGGCCAA
GCTGAAGCCAGGGGCTCCCTTGCGGCCCAAACCTGAACCCGAAGAAAGCCCGTGCCTACGGGCCAGGCATCGAGCC
CACAGGCAACATGGTGAAGAAGCGGGCAGAGTTCACTGTGGAGACCAGAAGTGCTGGCCAGGGAGAGGTGCTGGT
GTACGTGGAGGACCCGGCCGGACACCAGGAGGAGGCCAAAAGTGACCGCCAATAACGACAAGAACCGCACCTTCTC
CGTCTGGTACGTCCCCGAGGTGACGGGGACTCATAAGGTTACTGTGCTCTTTGCTGGCCAGCACATCGCCAAGAG
CCCCTTCGAGGTGTACGTGGATAAGTCACAGGGTGACGCCAGCAAAGTGACAGCCCAAGGTCCCGGCCCTGGAGCC
CAGTGGCAACATCGCCAACAAGACCACCTACTTTGAGATCTTTACGGCAGGAGCTGGCACGGGCGAGGTGAGGT
TGTGATCCAGGACCCCATGGGACAGAAGGGCACGGTAGAGCCTCAGCTGGAGGCCCGGGGCGACAGCACATACCG
CTGCAGCTACCAGCCACCATGGAGGGCGTCCACACCGTGACGTACGTTTGCCGGCGTGGCCATCCCTCGCAG
CCCCTACACTGTCACTGTTGGCCAAGCCTGTAACCCGAGTGCTGCCGGGCGGTTGGCCGGGGCCTCCAGCCCAA
GGGTGTGCGGGTGAAGGAGACAGCTGACTTCAAGGTGTACACAAAGGGCGCTGGCAGTGGGGAGCTGAAGGTAC
CGTGAAGGGCCCCAAGGGAGAGGAGCGCTGAAGCAGAAGGACCTGGGGGATGGCGTGTATGGCTTCGAGTATTA
CCCCATGGTCCCTGGAACCTATATCGTCACCATCACGTGGGGTGGTCAAGACATCGGGCGCAGTCCCTTCGAAGT
GAAGGTGGGCACCGAGTGTGGCAATCAGAAGGTACGGGCCTGGGGCCCTGGGCTGGAGGGCGGCGTCTGTGGCAA
GTCAGCAGACTTTGTGGTGGAGGCTATCGGGGACGACGTGGGCACGCTGGGCTTCTCGGTGGAAGGGCCATCGCA
GGCTAAGATCGAATGTGACGACAAGGGCGACGGCTCCTGTGATGTGCGCTACTGGCCGCGAGGAGGTGGCGAGTA
TGCCGTTACGTGCTGTGCAACAGCGAAGACATCCGCCTCAGCCCCTTCATGGCTGACATCCGTGACGCGCCCCA
GGACTTCCACCCAGACAGGGTGAAGGCACGTGGGCCTGGATTGGAGAAGACAGGTGTGGCCGTCAACAAGCCAGC
AGAGTTCACAGTGGATGCCAAGCACGGTGGCAAGGCCCACTTCGGGTCCAAGTCCAGGACAATGAAGGTGCCC
TGTGGAGGCGTTGGTCAAGGACAACGGCAATGGCACTTACAGCTGCTCCTACGTGCCCAGGAAGCCGGTGAAGCA
CACAGCCATGGTGTCTTGGGGAGGCGTCAGCATCCCCAACAGCCCCTTCAGGGTGAATGTGGGAGCTGGCAGCCA
CCCCAACAAAGGTCAAAGTATACGGCCCCGGAGTAGCCAAGACAGGGCTCAAGGCCACAGACCCACCTACTTCAC
TGTGGACTGCGCCGAGGCTGGCCAGGGGGACGTACGATCGGCATCAAGTGTGCCCTGGAGTGGTAGGCCCGC
CGAAGCTGACATCGACTTCGACATCATCCGCAATGACAATGACACCTTCACGGTCAAGTACACGCCCCGGGGGGC
TGGCAGCTACACCATTATGGTCTCTTTGCTGACCAGGCCACGCCCACCAGCCCCATCCGAGTCAAGGTGGAGCC
CTCTCATGACGCCAGTAAGGTGAAGGCCGAGGGCCCTGGCCTCAGTCGCACTGGTGTGAGCTTGGCAAGCCCAC
CCACTTCACAGTAAATGCCAAAGCTGCTGGCAAAGGCAAGCTGGACGTCCAGTTCTCAGGACTCACCAAGGGGGA
TGCAGTGCAGAGATGTGGACATCATCGACCACCATGACAACACCTACACAGTCAAGTACACGCCTGTCCAGCAGGG
TCCAGTAGGCGTCAATGTCACTTATGGAGGGGATCCCATCCCTAAGAGCCCTTTCTCAGTGGCAGTATCTCCAAG
CCTGGACCTCAGCAAGATCAAGGTGTCTGGCCTGGGAGAGAAGGTGGACGTTGGCAAAGACCAGGAGTTCACAGT
CAAATCAAAGGTGCTGGTGGTCAAGGCAAAGTGGCATCCAAGATTGTGGGCCCTCGGGTGCAGCGGTGCCCTG
CAAGGTGGAGCCAGGCCTGGGGGCTGACAACAGTGTGGTGCCTTCCCTGCCCGTGAGGAAGGGCCCTATGAGGT
GGAGGTGACCTATGACGGCGTGGCCGTGGCTGGCAGCCCCTTTCTCTGGAAGCTGTGGCCCCCACCAGCCTAG
CAAGGTGAAGGCGTTTGGGCCGGGGCTGCAGGGAGGCAGTGGGGCTCCCCCGCCGCTTACCATCGACACCAA
GGGCGCCGGCACAGGTGGCCTGGGCCTGACGGTGGAGGGCCCCCTGTGAGGCGCAGCTCGAGTGTGGACAATGG
GGATGGCACATGTTCCGTGTCTACGTGCCACCAGGCCGGGGACTACAACATCAACATCCTCTTCGCTGACAC

6848/6881
FIGURE 6329B

CCACATCCCTGGCTCCCCATTCAAGGCCACGTGGTTCCCTGCTTTGACGCATCCAAAGTCAAGTGCTCAGGCCC
CGGGCTGGAGCGGGCCACCGCTGGGGAGGTGGGCCAATTCCAAGTGGACTGCTCGAGCGCGGGCAGCGCGGAGCT
GACCATTGAGATCTGCTCGGAGGCGGGCTTCCGGCCGAGGTGTACATCCAGGACCACGGTGATGGCACGCACAC
CATTACCTACATTCCCCTCTGCCCCGGGGCTACACCGTCAACATCAAGTACGGCGGCCAGCCCGTGCCCAACTT
CCCCAGCAAGCTGCAGGTGGAACCTGCGGTGGACACTTCCGGTGTCCAGTGCTATGGGCCTGGTATTGAGGGCCA
GGGTGTCTTCCGTGAGGCCACCACTGAGTTCAAGTGTGGACGCCCGGGCTCTGACACAGACCGGAGGGCCGCACGT
CAAGGCCCGTGTGGCCAACCCCTCAGGCAACCTGACGGAGACCTACGTTCAAGGACCGTGGCGATGGCATGTACAA
AGTGGAGTACACGCCTTACGAGGAGGGACTGCACTCCGTGGACGTGACCTATGACGGCAGTCCCGTGCCAGCAG
CCCCCTCCAGGTGCCCCGTGACCGAGGGCTGCGACCCCTCCCGGGTGGCTGTCCACGGGCCAGGCATCCAAAGTGG
CACCACCAACAAGCCCAACAAGTTCACTGTGGAGACCAGGGGAGCTGGCACGGCGGGCTGGGCCTGGCTGTAGA
GGGCCCCCTCCGAGGCCAAGATGTCTGCATGGATAACAAGGACGGCAGCTGCTCGGTGAGTACATCCCTTATGA
GGCTGGCACCTACAGCCTCAACGTACCTATGGTGGCCATCAAGTGCCAGGCAGTCTTTCAAGGTCCCTGTGCA
TGATGTGACAGATGCGTCCAAGGTCAAGTGTCTGGGCCCCGGCCTGAGCCCAGGCATGGTTTCGTGCCAACCTCCC
TCAGTCTTCCAGGTGGACACAAGCAAGGCTGGTGTGGCCCCATTGCAGGTCAAAGTGCAAGGGCCCAAGGCCCT
GGTGGAGCCAGTGGACGTGGTAGACAACGCTGATGGCACCCAGACCGTCAATTATGTGCCAGCCGAGAAGGGCC
CTACAGCATCTCAGTACTGTATGGAGATGAAGAGGTACCCCGGAGCCCCCTCAAGGTCAAGGTGCTGCCTACTCA
TGATGCCAGCAAGGTGAAGGCCAGTGGCCCCGGGCTCAACACCCTGGCGTGCCTGCCAGCCTGCCCGTGGAGTT
CACCATCGATGCAAAGGACGCCGGGGAGGGCCTGCTGGCTGTCCAGATCACGGATCCCGAAGGCAAGCCGAAGAA
GACACACATCCAAGACAACCATGACGGCACGTATACAGTGGCTACGTGCCAGACGTGACAGGTGCTACACCAT
CCTCATCAAGTACGGTGGTGACGAGATCCCCCTTCTCCCCGTACCGCGTGCCTGCCGTGCCACCGGGGACGCCAG
CAAGTGCCTGTACAGGTGCTGGCATCGGCCCCACCATTCAGATTGGGGAGGAGACGGTGATCACTGTGGACAC
TAAGGCGGCAGGCAAAGGCAAAGTGACGTGCACCGTGTGCACGCCTGATGGCTCAGAGGTGGATGTGGACGTGGT
GGAGAATGAGGACGGCACTTTCGACATCTTCTACACGGCCCCCAGCCGGGCAATACGTATCTGTGTGCGCTT
TGGTGGCGAGCACGTGCCCAACAGCCCCCTTCCAAGTGACGGCTCTGGCTGGGGACCAGCCCTCGGTGCAGCCCC
TCTACGGTCTCAGCAGTGGCCCCACAGTACACCTACGCCAGGGCGGCCAGCAGACTTGGGCCCCGGAGAGGCC
CCTGGTGGGTGTCAATGGGCTGGATGTGACCAGCCTGAGGCCCTTTGACCTTGTATCCCCTTACCATCAAGAA
GGGCGAGATCACAGGGGAGGTTTCGGATGCCCTCAGGCAAGGTGGCGCAGCCACCATCACTGACAACAAAGACGG
CACCCTGACCGTGCCTGATGCACCCAGCGAGGCTGGCCTGCACGAGATGGACATCCGCTATGACAACATGCACAT
CCCAGGAAGCCCCCTTGCAGTTCTATGTGGATTACGTCAACTGTGGCCATGTCACTGCCTATGGGCCTGGCCTCAC
CCATGGAGTAGTGAACAAGCCTGCCACCTTACCGTCAACACCAAGGATGCAGGAGAGGGGGGCTGTCTCTGGC
CATTGAGGGCCCGTCCAAAGCAGAAATCAGCTGCACTGACAACCAGGATGGGACATGCAGCGTGTCTACCTGCC
TGTGCTGCCGGGGGACTACAGCATTCTAGTCAAGTACAATGAACAGCACGTCCCAGGCAGCCCCCTTCACTGCTCG
GGTACAGGTGACGACTCCATGCGTATGTCCACCTAAAGGTGCGCTCTGCTGCCGACATCCCCATCAACATCTC
AGAGACGGATCTCAGCCTGCTGACGGCCACTGTGGTCCCCGCCCTCGGGCCGGGAGGAGCCCTGTTTGTGAAGCG
GCTGCGTAATGGCCACGTGGGGATTTCATTTCGTGCCCAAGGAGACGGGGGAGCACCTGGTGCATGTGAAGAAAA
TGGCCAGCACGTGGCCAGCAGCCCCATCCCGGTGGTGATCAGCCAGTCGGAATTTGGGGATGCCAGTCTGTTCG
GGTCTCTGGTCAAGGCCCTTACGAAGGCCACACCTTTGAGCCTGCAGAGTTTATCATTGATACCCGCGATGCAGG
CTATGGTGGGCTCAGCCTGTCCATTGAGGGCCCCAGCAAGGTGGACATCAACACAGAGGACCTGGAGGACGGGAC
GTGCAGGGTCACTACTGCCCCACAGAGCCAGGCAACTACATCATCAACATCAAGTTTGGCGACCAGCACGTGCC
TGGCAGCCCCCTTCTCTGTGAAGGTGACAGGCGAGGGCCGGGTGAAAGAGAGCATCACCCGAGGCGTCGGGCTCC
TTCAGTGGCCAACGTTGGTAGTCATTGTGACCTCAGCCTGAAAATCCCTGAAATTAGCATCCAGGATATGACAGC
CCAGGTGACCAGCCCATCGGGCAAGACCCATGAGGGCCGAGATCGTGGAAGGGGAGAACCACACCTACTGCATCCG
CTTTGTTCCCGCTGAGATGGGCACACACACAGTCAGCGTGAAGTACAAGGGCCAGCACGTGCCTGGGAGCCCCCTT
CCAGTTACCGTGGGGCCCCCTAGGGGAAGGGGAGCCACAAGGTCCGAGCTGGGGGCCCTGGCCTGGAGAGAGC
TGAAGCTGGAGTGCCAGCCGAATTCAGTATCTGGACCCGGGAAGCTGGTGTGGAGGCTGGCCATTGCTGTGCA
GGGCCCCAGCAAGGCTGAGATCTCTTTGAGGACCGCAAGGACGGCTCCTGTGGTGTGGCTTATGTGGTCCAGGA
GCCAGGTGACTACGAAGTCTCAGTCAAGTTCAACGAGGAACACATTCCCGACAGCCCCCTTCGTGGTGCCTGTGGC
TTCTCCGTCTGGCGACGCCCCGCCCTCACTGTTTCTAGCCTTCAAGGATCAGGGCTAAAGGTCAACCAGCCAGC

6799/6881
FIGURE 6282

CAGGAGGAGACAGCCTCCCGGCCCGGGAGGACAAGTCGCTGCCACCTTTGGCTGCCGACGTGATTCCCTGGGAC
GGTCCGTTTCTTGCCGTCAGCTGCCGGCCGAGTTGGGTCTCCGTGGTTTCAGGCCGGCTCCCCCTTCCTGGTCTCC
CTTCTCCCGCTGGGCCGGTTTATCGGGAGGAGATTGTCTTCCAGGGCTAGCAATTGGACTTTTGATGATGTTTGA
CCCAGCGGCAGGAATAGCAGGCAACGTGATTTCAAAGCTGGGCTCAGCCTCTGTTTCTTCTCTCGTGTAATCGCA
AAACCCATTTTGGAGCAGGAATTCCAATCATGTCTGTGATGGTGGTGAGAAAGAAGGTGACACGGAAATGGGAGA
AACTCCAGGCAGGAACACCTTTTGCTGTGATGGCCGCGTCATGATGGCCCGGCAAAAGGGCATTTCCTACCTGA
CCCTTTTCTCATCTCTGGGGACATGTACACTCTTCTTCGCCCTTTGAGTGCCGCTACCTGGCTGTTTCAGCTGTCTC
CTGCCATCCCTGTATTTGCTGCCATGCTCTTCTTTCTCCATGGCTACACTGTTGAGGACCAGCTTCAGTGACC
CTGGAGTGATTCTCGGGCGCTACCAGATGAAGCAGCTTTCATAGAAATGGAGATAGAAGCTACCAATGGTGCGG
TGCCCCAGGGCCAGCGACCACCGCCTCGTATCAAGAATTTCCAGATAAACAACCAGATTGTGAAACTGAAATACT
GTTACACATGCAAGATCTTCCGGCCTCCCCGGGCCTCCCATTCAGCATCTGTGACAACCTGTGTGGAGCGCTTCG
ACCATCACTGCCCCCTGGGTGGGGAATTGTGTTGGAAAGAGGAACTACCGCTACTTCTACCTCTTCATCCTTTCTC
TCTCCCTCCTCACAATCTATGTCTTCGCCCTTCAACATCGTCTATGTGGCCCTCAAATCTTTGAAAATTGGCTTCT
TGGAGACATTGAAAGAACTCCTGGAACCTGTTCTAGAAGTCTCATTGCTTCTTTACACTCTGGTCCGTCGTGG
GACTGACTGGATTTTCATACTTTCTCGTGGCTCTCAACCAGACAACCAATGAAGACATCAAAGGATCATGGACAG
GGAAGAATCGCGTCCAGAATCCCTACAGCCATGGCAATATTGTGAAGAACTGCTGTGAAGTGCTGTGTGGCCCT
TGCCCCCAGTGTGCTGGATCGAAGGGGTATTTTGCCACTGGAGGAAAGTGGAAGTCGACCTCCAGTACTCAAG
AGACCAGTAGCAGCCTCTTGCCACAGAGCCCAGCCCCACAGAACACCTGAACTCAAATGAGATGCCGGAGGACA
GCAGCACTCCCGAAGAGATGCCACCTCCAGAGCCCCCAGAGCCACCACAGGAGGCAGCTGAAGCTGAGAAGTAGC
CTATCTATGGAAGAGACTTTTGTGTTGTGTTTAATTAGGGCTATGAGAGATTTTCAGGTGAGAAGTTAAACCTGAGA
CAGAGAGCAAGTAAGCTGTCCCTTTTAACTGTTTTTCTTTGGTCTTTAGTCACCCAGTTGCACACTGGCATTTTC
TTGCTGCAAGCTTTTTTAAATTTCTGAACTCAAGGCAGTGGCAGAAGATGTCAGTCACCTCTGATAACTGGAAAA
ATGGGTCTCTTGGGCCCTGGCACTGGTT

6800/6881
FIGURE 6283

LFLLSCNRKTHFGAGIPIMSVMVVRKKVTRKWEKLPGRNTFCCDGRVMMARQKGIFYLTLLFLILGTCTLFFAFEC
RYLAVQLSPAIPVFAAMLFLFSMATLLRTSFSDPGVIPRALPDEAAFIEMEIEATNGAVPQGQRPPPRIKNFQIN
NQIVKLKYCYTCKIFRPPRASHCSICDNCVERFDHHC PWVGNCV GKRNYRYFYLFILSLSLTIYVFAFNIVYVA
LKSLKIGFLET LKETPGTVLEVLI CFFTLWSVVG LTGFHTFLVALNQTTNEDIKGSWTGKNRVQNPYSHGNIVKN
CCEVLCGPLPPSVLDRRGILPLEESGSRPPSTQETSSSLLPQSPAPTEHLNSNEMPEDSSTPEEMPPEPPEPPQ
EAAEAEK

6801/6881
FIGURE 6284

TGCTTTCTTCGGCTTCCGTTCTTGGTCCATGTGAGAGAAGCTGGCTGCTGAAATGACTGCGAACCGGCTTGCAG
AGAGCCTTCTGGCTTTGAGCCAACAGGAAGAACTAGCGGATTTGCCAAAAGACTACCTCTTGAGTGAGAGTGAAG
ATGAGGGGGGACAAATGATGGAGAGAGAAAAGCATCAAAGCTTCTGGAAGCAATCAGTTCCCTTGATGGAAAGAATA
GGCGGAAATTGGCTGAGAGGTCTGAGGCTAGTCTGAAGGTGTCAGAGTTCAATGTCAGTTCTGAAGGATCAGGAG
AAAAGCTGGTCCCTTGCAGATCTGCTTGAGCCTGTTAAACTTTCATCTTCTTTGGCCACTGTGAAAAAGCAACTGA
GTAGAGTCAAATCAAAGAAGACAGTGGAGTTACCTCTGAACAAAGAAGAGATTGAACGGATCCACAGAGAAGTAG
CATTCAATAAAAACCGCACAAAGTCTCTCAAATGGGACCCTGTGTCCTGAAGAACCGGCAGGCAGAGCAGCTGG
TTTTTCCCCTGGAGAAAGAGGAGCCAGCCATTGCTCCCATTTGAACATGTGCTCAGTGGCTGGAAGGCAAGAACTC
CCCTGGAGCAGGAAATTTTCAACCTCCTCCATAAGAACAAGCAGCCAGTGACAGACCCTTTACTGACCCCTGTGG
AAAAGGCCCTCTCTCCGAGCCATGAGCCTAGAAGAGGCAAAGATGCGACGAGCAGAGCTTCAGAGGGCTCGGGCTC
TGCAGTCTTACTATGAGGCCAAGGCTCGAAGAGAGAAGAAAATCAAAGTAAAAAGTATCACAAAGTCGTGAAGA
AAGGAAAGGCCAAGAAAGCCCTAAAAGAGTTTGAGCAGCTGCGGAAGGTTAATCCAGCTGCAGCACTAGAAGAAC
TGGAAAAAATTGAAAAGGCCAGAATGATGGAAGAATGAGCCTTAAGCACCAAAACAGTGGGAAATGGGCCAAGT
CAAAGGCAATTATGGCCAAATATGACCTGGAGGCTCGCCAAGCTATGCAGGAACAGTTGTCTAAGAACAAAGAAC
TGACACAGAAACTCCAGGTAGCCTCTGAGAGTGAGGAAGAGGAGGGAGGCACAGAAGATGTGGAAGAACTCCTTG
TCCCTGATGTAGTGAATGAAGTGCAGATGAATGCAGATGGGCCGAATCCCTGGATGCTCAGGAGCTGCACCAAGT
ACACCAAAGAGGCTGCAACCCAGGAGGACCCTGAGCAACTGCCAGAGCTTGAGGCCCATGGAGTTTCTGAAAGTG
AGGGAGAAGAAAGACCAGTGGCAGAAGAAGAAATTTTGTGAGAGAATTTGAGGAAAGGCGATCCCTTAGAAAAA
GATCTGAGCTCAGCCAAGATGCTGAGCCAGCAGGCAGTCAAGAAAACAAAAGATTCTGGCAGCCAGGAGGTGCTGT
CTGAATTGAGAGTACTATCTCAGAAATTGAAGGAAAACCATCAGTCCAGGAAGCAAAAAGCAAGTTCAGAGGGGA
CTATTCCCCAGGTCCAGAGAGAGGAACCTGCCCCAGAAGAAGAGGAGCCCCCTGTTGCTACAGAGACCAGAGAGAG
TACAGACGCTGGAAGAGCTAGAAGAGCTGGGAAAAGAAGAATGTTTTCAAAAATAAGGAGCTTCCCAGACCTGTGT
TAGAAGGGCAGCAGTCAGAGAGGACCCCAAATAATCGCCCTGATGCCCTAAGGAGAAGAAAAAGAAGGAGCAAA
TGATCGACCTACAGAACCTCCTAACCACACAATCTCCCTCCGTGAAGTCTTTGGCAGTTCCCACAATAGAGGAGC
TGGAAGATGAAGAGGAGAGAAAACCATAGGCAGATGATAAAGGAAGCTTTTGCTGGGGATGATGTCATCAGAGATT
TCTTGAAAGAGAAGAGGGAAGCTGTGGAGGCGAGTAAGCCAAAGGACGTGGACCTGACACTACCTGGCTGGGGCG
AGTGGGGTGGTGTGGGCCTAAAGCCAGTGCCAAGAAAAGACGCCGGTTTCTCATTAAAGCCCCTGAGGGTCCTC
CAAGAAAAGATAAGAATTTGCCAAATGTGATTATCAATGAGAAGCGCAACATCCACGCAGCTGCTCATCAGGTAC
GAGTGCTTCCATATCCATTTACCCACCATTGGCAATTTGAAAGGACCATCCAGACCCCATAGGATCCACATGGA
ACACCCAGAGGGCTTTCCAAAAGCTGACTACTCCCAAGGTCGTACCAAGCCAGGCCATATCATTAAACCCATAA
AAGCAGAAGACGTGGGCTACCGGTCTTCTCAAGGTCGGACCTGTCTGTCATACAGAGGAATCCAAAACGAATCA
CCACACGTCACAAAAAACAGCTGAAGAAATGCTCTGTAGATTGAGTTGCTGGAGGAGTGACAGCCAGGAGCCCTG
ACTTCACTTCCTTTGGTCCAGTTTTACTCTGATACAGGGTGGATTCCAAAACCTGGCTCAGTACATTGCATGTAGT
TAAGCCACATTTTAAAAATAAAGGCATTTTTTAATCT

6802/6881
FIGURE 6285

AGAGGAAAGGGAAGGAGGAGGTCCCGAATAGCGGTGCGCCGAAATGTTCCGGTGTGGAGGCCTGGCGGCGGGTGCT
TTGAAGCAGAAGCTGGTGCCCTTGGTGCGGACCGTGTGCGTCCGAAGCCCGAGGCAGAGGAACCGGCTCCCAGGC
AACTTGTTCCAGCGATGGCATGTTCCCTCTAGAACTCCAGATGACAAGACAAATGGCTAGCTCTGGTGCATCAGGG
GGCAAAATCGATAATTCTGTGTTAGTCCTTATTGTGGGCTTATCAACAGTAGGAGCTGGTGCCTATGCCTACAAG
ACTATGAAAGAGGACGAAAAAGATAACAATGAAAGAATTTACGGGTTAGGGCTGACACCAGAACAGAAACAGAAA
AAGGCCGCGTTATCTGCTTCAGAAGGAGAGGAAGTTCCTCAAGACAAGGCGCCAAGTCATGTTCCCTTTCCTGCTA
ATTGGTGGAGGCACAGCTGCTTTTGCTGCAGCCAGATCCATCCGGGCTCGGGATCCTGGGGCCAGGGTACTGATT
GTATCTGAAGATCCTGAGCTGCCGTACATGCGACCTCCTCTTTCAAAAGAACTGTGGTTTTTCAGATGACCCAAAT
GTCACAAAGACACTGCGATTCAAACAGTGGAATGGAAGAGAGAAGCATATATTTCCAGCCACCTTCTTTCTAT
GTCTCTGCTCAGGACCTGCCTCATATTGAGAATGGTGGTGTGGCTGTCTCACTGGGAAGAAGGTAGTACAGCTG
GATGTGAGAGACAACATGGTGAACCTTAATGATGGCTCTCAAATAACCTATGAAAAGTGCTTGATTGCAACAGGA
GGTACTCCAAGAAGTCTGTCTGCCATTGATAGGGCTGGAGCAGAGGTGAAGAGTAGAACAACGCTTTTCAGAAAG
ATTGGAGACTTTAGAAGCTTGGAGAAGATTTACGGGAAGTCAAATCAATTACGATTATCGGTGGGGGCTTCCTT
GGTAGCGAACTGGCCTGTGCTCTTGGCAGAAAGGCTCGAGCCTTGGGCACAGAAGTGATTCAACTCTTCCCCGAG
AAAGGAAATATGGGAAAGATCCTCCCCGAATACCTCAGCAACTGGACCATGGAAAAAGTCAGACGAGAGGGGGTT
AAGGTGATGCCCAATGCTATTGTGCAATCCGTTGGAGTCAGCAGTGGCAAGTTACTTATCAAGCTGAAAGACGGC
AGGAAGGTAGAACTGACCACATAGTGGCAGCTGTGGGCCTGGAGCCCAATGTTGAGTTGGCCAAGACTGGTGGC
CTGGAAATAGACTCAGATTTTGGTGGCTTCCGGGTAAATGCAGAGCTACAAGCACGCTCTAACATCTGGGTGGCA
GGAGATGCTGCATGCTTCTACGATATAAAGTTGGGAAGGAGGCGGGTAGAGCACCATGATCACGCTGTTGTGAGT
GGAAGATTGGCTGGAGAAAATATGACTGGAGCTGCTAAGCCGTACTGGCATCAGTCAATGTTCTGGAGTGATTTG
GGCCCCGATGTTGGCTATGAAGCTATTGGTCTTGTGGACAGTAGTTTGGCCACAGTTGGTGTTTTTTGCAAAAGCA
ACTGCACAAGACAACCCCAAATCTGCCACAGAGCAGTCAGGAAGTGGTATCCGATCAGAGAGTGAGACAGAGTCC
GAGGCCTCAGAAATTACTATTCTCCCAGCACCCCGGCAGTTCCACAGGCTCCCGTCCAGGGGGAGGACTACGGC
AAAGGTGTCATCTTCTACCTCAGGGACAAAGTGGTCTGTTGGGATTGTGCTATGGAACATCTTTAACCGAATGCCA
ATAGCAAGGAAGATCATTAAAGGACGGTGAGCAGCATGAAGATCTCAATGAAGTAGCCAAACTATTCAACATTCAT
GAAGACTGAAGCCCCACAGTGAATTGGCAA

6803/6881
FIGURE 6286

MFRCGGLAAGALKQKLVPLVRTVCVRSPRQRNRLPGNLFQRWHVPLELQMTROMASSGASGGKIDNSVLVLIVGL
STVGAGAYAYKTMKEDEKRYNERISGLGLTPEQKQKKAALSASEGEEVPQDKAPSHVPFLLIGGGTAAFAAARSI
RARDPGARVLIVSEDPELPYMRPPLSKELWFSDDPNVTKTLRFKQWNGKERSIYFQPPSFYVSAQDLPHIENGGV
AVLTGKKVVQLDVRDNMVKLNDGSQITYEKCLIATGGTPRSLSAIDRAGAEVKSRTTLFRKIGDFRSLEKISREV
KSITIIGGGFLGSELACALGRKARALGTEVIQLFPEKGNMGKILPEYLSNWTMEKVRREGVKVMPNAIVQSVGVS
SGKLLIKLDGRKVETDHI VAAVGLEPNVELAKTGGLEIDSDFGGFRVNAELQARSNIWVAGDAACFYDIKLGRR
RVEHHDHAVVSGRLAGENMTGAAKPYWHQSMFWSDLGPDVGYEAI GLVDSSLPTVGVFAKATAQDNPKSATEQSG
TGIRSESETESEASEITIPPSTPAVPQAPVQGEDYGKGVIFYLRDKVVVGIVLWNIFNRMPIARKI IKDGEQHED
LNEVAKLFNIHED

6804/6881
FIGURE 6287

CCCTCCCCTGCCTGCATTCCCGGGACGGACCCGAGGGAAGAAGCCTCAGGAGGAGGGTGTGGGCCGAGGCGCGGC
GGCGGCTGGAGCAGCGCGGTAGGGTCCTTCGCCAGAGCATCCGGTCCGAGGGCGCACACAGGCAGAAGGCTCGGG
GCTCGTCCACTCTCCTCCCTCTCTCCTCCTCTCCCTGGCTTTGTGTTGGTGCCTCCGAGCTGCAAGGAGGGTGCG
CTGGAGGAGGAGGAGGGGGGGCCCGGAGTGAGAGGCACCCCTTCACGCGCGCGCGCGCACACGGTGCCGGCGCAC
GCACACACGGGCGGACACACACACACGCGCGCACACACACACGACAGAGCTCGCTCGCCTCGAGCGCACGAACG
TGGACGTTCTCTTTGTGTGGAGCCCTCAAGGGGGGTGGGGCCCCGGTTCGGTCCGGGGGAGATCGGCGCAGCCCA
TCCTGGGCCATGGGAGCCTGCAGCCCGCCTCGGCCGCTGGCCTGGCGTCCCTGGAGCTCGACTCGTCGCTGGACC
AGTACGTGCAGATTTCGCATCTTCAAATAATCGTGATTGGGGACTCCAACGTGGGCAAGACCTGCCTGACCTTCC
GCTTCTGCGGGGGTACCTTCCCAGACAAGACTGAAGCCACCATCGGCCGTGGACTTCAGGGAGAAGACCGTGGAAA
TCGAGGGCGAGAAGATCAAGGTTCAAGGTGTGGGACACAGCAGGTCAGGAACGTTTCCGCAAAAGCATGGTCGAGC
ATTACTACCGCAACGTACATGCCGTGGTCTTCGTCTATGACGTCACCAAGATGACATCTTTCACCAACCTCAAAA
TGTGGATCCAAGAATGCAATGGGCATGCTGTGCCCCCACTAGTCCCCAAAGTGCTTGTGGGCAACAAGTGTGACT
TGAGGGAACAGATCCAGGTGCCCTCCAACCTAGCCCTGAAATTTGCTGATGCCCACAACATGCTCTTGTTTGAGA
CATCGGCCAAGGACCCCAAAGAGAGCCAGAACGTGGAGTCGATTTTCATGTGCTTGGCTTGCCGATTGAAGGCC
AGAAATCCCTGCTGTATCGTGATGCTGAGAGGCAGCAGGGGAAGGTGCAGAACTGGAGTTCCACAGGAAGCTA
ACAGTAAACTTCCTGTCCTTGTTGAACCAACGATATAAATAACAAGATAAATTATCAGTGGAGTTTTTCTTT
CCCTTTTTTCTGTGCCTGCATAATGCTGACACCTGCTTGTTTCCATACAAATTGATATCAAAATAAAATTTGTAT
AGATTATC

6805/6881
FIGURE 6288

MAQPILGHGSLQPASAAGLASLELDSSLDQYVQIRIFKIIVIGDSNVGKTCLTFRFCGGTFPDKTEATIGVDFRE
KTVEIEGEKIKVQVWDTAGQERFRKSMVEHYRNVHAVVFYDVTKMTSFTNLKMWIECNHGVPLVPKVLVG
NKCDLREQIQVPSNLALKFADAHNMLLFETSAKDPKESQNVESIFMCLACRLKAQKSLLYRDAERQQGKVQKLEF
PQEANSKTSCPC

6806/6881
FIGURE 6289

GCCCCACCCCTCGACATGCGCTTCCGGCGACGCCCTTAGCGCTGACCCCCACGCAACCCAGCGAAACTCCGCGGAG
CGCGCGCGGCACGATGGACGGTCGGGTGCAGCTGATGAAGGCCCTCCTGGCCGGGGCCCCCTCCGGCCCCGCGGCGCG
TCGCTGGAGGAACCCGATTCCCTTTCCCGAGACGTTTGACGGAGATACCGACCGACTCCCGGAGTTCATCGTGCA
GACGAGCTCCTACATGTTTCGTGGACGAGAACACGTTCTCCAACGACGCCCTGAAGGTGCAAGCTGGGCTCCTGTT
ACATACTGGACAGACCACCCACAGCCGCTGCTGCCAACCCACCTCCACTCCTCCAGACTGCCAGCCAACCTACATC
ATTCTGCCCACAGACCTACGCTACCACTGCCATCGCCATCCACCGCATCTCACCAACAGACTGTGGCTCCTAGTG
ATGTGGACTCACCTCGGAGGTATCCGAGCTGGACACAGCCCCTGGACAGTGATCCAGACAGCTGGCCGTCCCCCA
AGGAGCCTGTCACCTTCAGCGAGACCCATTTCCCTCCCCATCCCCAGAGACCTCTTGTGTTCCCTGCCACATAGCTG
CCAGGGCTTAAGTGTGCCTGGCAACCAAATCGAATCTCTCATTTTCTCCTGTGGACCAGTTAGTTTTGCCTAGAA
TCCTGTTTTTCTTGAATTTGCAGCTGTCTCTCTGATGGGTGCCTTTTGTTC AACACAGTAAGCCCTGCTCCCTT
CCCTGCTCTAATACTACCTGTACAAAGGTTTTTTCCTTATTTTAAATAAATGTCAGACACTATT

6807/6881
FIGURE 6290

MHIWTLSC TSGASWAPVTYWDHPQPLLPTHLHSSRLFPANYIILPTDLRYHCHRHPPHLTNRLWLLVMWTHLGGI
RAGHSPWTVIQTAGRPRLSPSARPISSPSPETSCVPAT

6808/6881
FIGURE 6291

TGAAGGCCCTCCTGGCCGGGCCCCCTCCGGCCCGCGGCGCGTCGCTGGAGGAACCCGATTCCCTTTCCCGAGACGT
TTGACGGAGATACCGACCGACTCCCGGAGTTTCATCGTGCAGACGAGCTCCTACATGTCGTGGACGAGAACACGT
TCTCCAACGACGCCCTGAAGCCCAGCCCCCTCCATGCACATTTGGACGCTGTCCTGCACTTCAGGTGCAAGCTGGG
CTCCTGTTACATACTGGACAGACCACCCACAGCCGCTGCTGCCAACCCACCTCCACTCCTCCAGACTGCCAGCCA
ACTACATCATTCTGCCCACAGACCTACGCTACCACTGCCATCGCCATCCACCGCATCTCACCAACAGACTGTGGC
TCCTAGTGATGTGGACTCACCTCGGAGGTATCCGAGCTGGACACAGCCCCCTGGACAGTGATCCAGACAGCTGGCC
GTCCCCCAAGGAGCCTGTCACCTTCAGCGAGACCCATTTCTCCCCATCCCCAGAGACCTCTTGTTGTTCTGCCA
CATAGCTGCCAGGGCTTAAGTGTGCCTGGCAACCAAATCGAATCTCTC

6809/6881

FIGURE 6292

MFVDENTFSNDALKPSPSMHIWTLSCITSGASWAPVTYWTDHPQPLLPTHLHSSRLPANYIILPTDLRYHCHRHPP
HLTNRLWLLVMWTHLGGIRAGHSPWTVIQTAGRPERSLSPSARPISSPSPETSCVPAT

6810/6881
FIGURE 6293

CGGCACGAGGACAGAATCAGGTGATGGTCCAGAATTAAGAGCTGTACCTGTGTCATTCACTCACAATGAAAGAA
ATGAAGAAGACTGCCATCCGGCTGCCCCAAGGCCAAACAGAAGCCTATAAAGACGGAATGGAATTCCCGGTGTGTC
CTTTTCACCTACTTCCAAGGGGACATCAGCAGCGTAGTGGATGAACACTTCTCCAGAGCTCTGAGCAATATCAAG
AGCCCCCAGGAATTGACCCCTCGAGTCAGAGTGAAGGTGTGATGCTGAAAAACGATGATAGCATGTCTCCAAAT
CAGTGGCGTTACTCGTCTCCATGGACAAAGCCACAACCAGAAGTACCTGTCACAAACCGTGCCGCCAACTGCAAC
TTGCATGTGCCCTGGTCCCATGGCTGTGAATCAGTTCTCACCGTCCCTGGCTAGGAGGGCCTCTGTTTCGGCCTGGG
GAGCTGTGGCATTTCCTCCCTGGCGGGCACCAGCTCCTTAGAGCCTGGCTACTCTCATCCCTTCCCCGCTCGG
CACCTGGTTCCAGAGCCCCAGCCTGATGGGAAACGTGAGCCTCTCCTAAGTCTCCTCCAGCAAGACAGATGCCTA
GCCCCGCTCCTCAGGAATCTGCCGCCAGGGAGAATGGCAACCCCTGGCCAGATAGCTGGAAGCACAGGGTTGCTCTTC
AACCTGCCTCCCGGCTCAGTTCACTATAAGAACTATATGTATCTCGTGGATCTGCCAGTACCAGCCTTCCAAAT
GAACTCTTTCAGAGTTAGAGACACCTGGGAAATACTCACTTACACCACCAAACCACTGGGGCCACCCACATCGA
TACCTGCAGCATCTTTAGTCAAGTTGGAGGAGAAAGACAACACTTGGTCTAAGACACGGCAGCAAGACATCCCTG
CATATTGTTCCAGATAAAAAATGAAAGCTGCTCACACCCACTTGCCTCCCCAATCTGTTAAACAGCTTCGTGTCTA
GTATGAGCTCAGTACTTGCCCTGTGAAAATCCCAGAAGCCCCCGCTGTCAATGTTCCCCATCCACACCCTGCTTG
CTCCTGTGTAACAGCTCAGATGATGAATAATAATAAACTGTACTTTTTTGGAAAAAAAAAAAAAAAAAAAAAAAAA

6849/6881
FIGURE 6329C

CTCTTTTGCAGTCAGCCTGAACGGGGCCAAGGGGGCGATCGATGCCAAGGTGCACAGCCCCTCAGGAGCCCTGGA
GGAGTGCTATGTCACAGAAATTGACCAAGATAAGTATGCTGTGCGCTTCATCCCTCGGGAGAAATGGCGTTTACCT
GATTGACGTCAAGTTCAACGGCACCCACATCCCTGGAAGCCCCTTCAAGATCCGAGTTGGGGAGCCTGGGCATGG
AGGGGACCCAGGCTTGGTGTCTGCTTACGGAGCAGGTCTGGAAGGCGGTGTCACAGGGAACCCAGCTGAGTTCGT
CGTGAACACGAGCAATGCGGGAGCTGGTGGCCCTGTGCGGTGACCATTGACGGCCCCCTCCAAGGTGAAGATGGATTG
CCAGGAGTGGCCTGAGGGCTACCGCGTCACCTATACCCCCATGGCACCTGGCAGCTACCTCATCTCCATCAAGTA
CGGCGGGCCCCTACCACATTGGGGGCAGCCCCCTTCAAGGCCAAAGTCACAGGCCCCCGTCTCGTCAGCAACCACAG
CCTCCACGAGACATCATCAGTGTGTTGTAGACTCTCTGACCAAGGCCACCTGTGCCCCCAGCATGGGGCCCCGGG
TCCTGGGCCTGCTGACGCCAGCAAGGTGGTGGCCAAGGGCCTGGGGCTGAGCAAGGCCTACGTAGGCCAGAAGAG
CAGCTTCACAGTAGACTGCAGCAAAGCAGGCAACAACATGCTGCTGGTGGGGGTTTCATGGCCCAAGGACCCCCTG
CGAGGAGATCCTGGTGAAGCACGTGGGCAGCCGGCTCTACAGCGTGTCTACCTGCTCAAGGACAAGGGGGAGTA
CACACTGGTGGTCAAATGGGGGGACGAGCACATCCAGGCAGCCCCTACCGCGTTGTGGTGGCCTGAGTCTGGGG
CCCGTGCCAGCCGGCAGCCCCCAAGCCTGCCCGCTACCCAAGCAGCCCCGCCCTCTTCCCCCTCAACCCCGGCC
AGGCCGCCCTGGCCGCCCGCCTGTCACTGCAGCCGCCCTGCCCTGTGCCGTGCTGCGCTCACCTGCCTCCCCAG
CCAGCCGCTGACCTCTCGGCTTTCACCTGGGCAGAGGGAGCCATTGGTGGCGCTGCTTGTCTTCTTTGGTTCTG
GGAGGGGTGAGGGATGGGGTCTGTACACAACCACCCACTAGTTCTCTTCTCCAGCCAAGAGGAATAAAGTTTT
GCTTCCATT

[illegible]

6851/6881
FIGURE 6330B

GGGATCCCATCTTTTTAACCTCTGTTTCAGGAAGTCCTTATCTAGCTGCATATCTTCATCATATTGGTATATCCTT
TTCTGTGTTTACAGAGATGTCTCTTATATCTAAATCTGTCCAAGTACCTTATCAAAGTAGCAAATGAG
ACAGCAGTCTTATGCTTCCAGAAACACCCACAGGCATGTCCCATGTGAGCTGCTGCCATGAAGTGTCAAGTGTGT
GTTGTCTTGTGTATTTTCAAGTATTGTCCCTGGCTTCCTTACTATGGTGTAAATCATGAAGGAGTGAAACATCATAG
AAACTGTCTAGCACTTCCTTGCCAGTCTTTAGTGATCAGGAACCATAGTTGACAGTTCCAATCAGTAGCTTAAGA
AAAAACCGTGTTTGTCTCTTCTGGAATGGTTAGAAGTGAGGGAGTTTGTCCCGTTCTGTTTGTAGAGTCTCATAG
TTGGACTTTCTAGCATATATGTGTCCATTTCCCTTATGCTGTAAAAAGCAAGTCCTGCAACCAAACCTCCCATCAGCC
CAATCCCTGATCCCTGATCCCTTCCACCTGCTCTGCTGATGACCCCCCAGCTTCACCTTCTGACTCTTCCCCAGG
AAGGGAAGGGGGGTGAGAAGAGAGGGTGAGTCCCTCCAGAACTCTTCTCCAAGGACAGAAGGCTCCTGCCCCCAT
AGTGGCCTCGAACTCCTGGCACTACCAAAGGACACTTATCCACGAGAGCGCAGCATCCGACCAGGTTGTCACTGA
GAAGATGTTTATTTTGGTCAAGTTGGGTTTTTATGTATTATACTTAGTCAAATGTAATGTGGCTTCTGGAATCATT
GTCCAGAGCTGCTTCCCCGTACCTGGGCGTCATCTGGTCTGGTAAGAGGAGTGGCTGGCCACCAGGCCCCCC
TGTCACCCATGACAGTTCAATTCAGGGCCGATGGGGCAGTCGTGGTTGGGAACACAGCATTTCAGCGTCACTTTA
TTTCATTTCGGGCCCCACCTGCAGCTCCCTCAAAGAGGCAGTTGCCAGCCTCTTCCCTTCCAGTTTATTCCAGA
GCTGCCAGTGGGGCCTGAGGCTCCTTAGGGTTTTCTCTCTATTTCCTCTTCTTCTCCTCATTCCCTCGTCTTTCC
CAAAGGCATCACAGTCACTGCGCTTTCAGCAGGCAGCCTTGCGGTTTTATCGCCCTGGCAGGCAGGGGCCCTGC
AGCTCTCATGCTGCCCTGCCTTGGGGTCAAGTTGACAGGAGTTGGAGGGAAGCCTTAAGCTGCAGGATTCTC
ACCAGCTGTGTCCGGCCAGTTTTGGGGTGTGACCTCAATTTCAATTTTGTCTGTACTTGAACATTATGAAGATG
GGGGCCTCTTTCAGTGAATTTGTGAACAGCAGAATTGACCGACAGCTTTCAGTACCCATGGGGCTAGGTCATTA
AGGCCACATCCACAGTCTCCCCACCCCTTGTTCAGTTGTTAGTTACTACCTCCTCTCCTGACAATACTGTATGT
CGTCGAGCTCCCCCAGGCTTACCCCTCCCGGCCCTGCCTGCTGGTGGGCTTGTCTATAGCCAGTGGGATTGCCGG
TCTTGACAGCTCAGTGAGCTGGAGATACTTGGTCACAGCCAGGCGCTAGCACAGCTCCCTTCTGTTGATGCTGTA
TTCCCATATCAAAGACACAGGGGACACCCAGAAACGCCACATCCCCCAATCCATCAGTGCCAAACTAGCCAACG
GCCCCAGCTTCTCAGCTCGCTGGATGGCGGAAGCTGCTACTCGTGAGCGCCAGTGCGGGTGCAGACAATCTTCTG
TTGGGTGGCATCATTCCAGGCCCGAAGCATGAACAGTGCACCTGGGACAGGGAGCAGCCCCAAATTGTCACTGC
TTCTCTGCCCAGCTTTTCAATTGCTGTGACAGTGATGGCGAAAGAGGGTAATAACCAGACACAAACTGCCAAGTTG
GGTGGAGAAAGGAGTTTCTTTAGCTGACAGAATCTCTGAATTTTAAATCACTTAGTAAGCGGCTCAAGCCCAGGA
GGGAGCAGAGGGATACGAGCGGAGTCCCTGCGCGGGACCATCTGGAATTGGTTTAGCCCCAGTGGAGCCTGACA
GCCAGAACTCTGTGTCCCCGTCTAACCACAGCTCCTTTTCCAGAGCATTCCAGTCAGGCTCTCTGGGCTGACTG
GGCCAGGGGAGGTTACAGGTACCAGTTCTTTAAGAAGATCTTTGGGCATATACATTTTTAGCCTGTGTCTATTGCC
CCAAATGGATTCTGTGTTTCAAGTTTACACCTGCAGATTCTAGGACCTGTGTCTTAGACTTCAGGGAGTCAGCTGT
TTCTAGAGTTTCTTACCATGGAGTGGGTCTGGAGGACCTGCCCGGTGGGGGGGCAGAGCCCTGCTCCCTCCGGGTC
TTCTTACTCTTCTCTCTGCTCTGACGGGATTGTTGATTCTCTCCATTTTGGTGTCTTTCTCTTTTAGATATTGT
ATCAATCTTTAGAAAAGGCATAGTCTACTTGTATAAATCGTTAGGATACTGCCTCCCCCAGGGTCTAAAATTAC
ATATTAGAGGGGAAAAGCTGAACACTGAAGTCAGTTCTCAACAATTTAGAAGGAAAACCTAGAAAACATTTGGCA
GAAAATTACATTTTCGATGTTTTTGAATGAATACGAGCAAGCTTTTACAACAGTGCTGATCTAAAAATACTTAGCA
CTTGGCCTGAGATGCCTGGTGAGCATTACAGGCAAGGGGAATCTGGAGGTAGCCGACCTGAGGACATGGCTTCTG
AACCTGTCTTTTGGGAGTGGTATGGAAGGTGGAGCGTTACACAGTGACCTGGAAGGCCAGCACCACCTCTTTC
CCACTCTTCTCATCTTGACAGAGCCTGCCCCAGCGCTGACGTGTGAGGAAAACACCCAGGGAACTAGGAAGGCAC
TTCTGCCTGAGGGGACGCTGCCTTGGCCACTCCTGCTCTGCTCGCCTCGGATCAGCTGAGCCTTCTGAGCTGGC
CTCTCACTGCCTCCCCAAGGCCCCCTGCCTGCCCTGTGAGGAGCAGAAGGAAGCAGGTGTGAGGGCAGTGAAG
GAGGGAGCACAACCCCCAGCTCCCGCTCCGGGCTCCGACTTGTGCACAGGCAGAGCCCAGACCCTGGAGGAAATC
CTACCTTTGAATTTCAAGAACATTTGGGGGAATTTGGAAATCTCTTTGCCCCCAAACCCCCATTCTGTCTTACCTTT
AATCAGGTCTGCTCAGCAGTGAGAGCAGATGAGGTGAAAAGGCCAAGAGGTTTGGCTCCTGCCACTGATAGCC
CCTCTCCCCGAGTGTGTTGTGTCAAGTGGCAAAGCTGTTCTTCTGCTGGTACCCTGATTATATCCAGTAACACA
TAGACTGTGCGCATAGGCCTGCTTGTCTCCTCTATCTGGGCTTTTGTGTTTGTCTTTTGTGTTTGTGTTTGTGTT
TTTCTGTCCCTTTTATTTAACGCACCGACTAGACACACAAAGCAGTTGAATTTTTATATATATATCTGTATATTG
CACAATTATAAACTCATTTTGTCTGTGGCTCCACACACACAAAAAAGACCTGTTAAAATTATACCTGTTGCTTA

FIGURE 6330C

[illegible]

6853/6881
FIGURE 6331

MVAGMLGLREEKSEDQDLQGLKDKPLKFKKVKKDKKEEKEGKHEPVQPSAHHSAEPAEAGKAETSEGSAPSAPVP
EASASPKQRRSIIRDGRGPMYDDPTLPEGWTRKLLKQRKSGRSAGKYDVYLINPQGKAFRSKVELIAYFEKVGDTSL
DPNDFDFTVTGRGSPSRREQPPKKPKSPKAPGTGRGRGRPKGSGTTRPKAATSEGVQVKRVLEKSPGKLLVKMP
FQTSPGGKAEGGGATTSTQVMVIKRPGRKRKAEADPQAIPKKRGRKPGSVAAAAAEAKKKAVKESSIRSVQETV
LPIKKRKTRETVSIEVKEVVKPLLVLSTLGEKSGKGLKTCKSPGRKSKESSPKGRSSSASSPPKEHHHHHHHSES
PKAPVPLLPLPPPPPEPESEDPTSPPEPQDLSSSVCKEEKMPRGGSLESDGCPKEPAKTQPAVATAATAAEKY
KHRGEGERKDIVSSSMRPNREEPVDSRTPVTERVS

6854/6881
FIGURE 6332

CGCGGACCCGGCCGGCCAGGCCCGCGCCCGCCGCGGCCCTGAGAGGCCCGGCAGGTCCCGGCCCGGCGGGCGGC
AGCCATGGCCGGGGGGGGCCGGGGCCGGGGGAGCCCGCAGCCCCCGGCGCCAGCACTTCTTGTACGAGGTGCCGCC
CTGGGTTCATGTGCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCGCGGACTGGTGCCAGTTCCGCCGCCCTGAT
CGTGCGCGACCAGACCGAGCTGCGGCTGTGCGAGCGCTCCGGGCAGCGCACGGCCAGCGTCTGTGGCCCTGGAT
CAACCGCAACGCCCCGTGTGGCCGACCTCGTGACATCCTCACGCACCTGCAGCTGCTCCGTGCGCGGGACATCAT
CACAGCCTGGCACCCTCCCGCCCCGCTTCCGTCCCCAGGCACCCTGCCCGAGGCCAGCAGCATCCCTGCACC
CGCCGAGGCCGAGGCCTGGAGCCCCCGAAGTTGCCATCCTCAGCCTCCACCTTCTCTCCCCAGCTTTTCCAGG
CTCCCAGACCCATTAGGGCCTGAGCTCGGCCTGGTTCCAAGCCCTGCTTCCCTGTGGCCTCCACCGCCATCTCC
AGCCCCCTTCTTCTACCAAGCCAGGCCAGAGAGCTCAGTGTCCTTCTGCAGGGAGCCCGCCCTCTCCGTTTTG
CTGGCCCCCTCTGTGAGATTTCCCGGGGCACCCACAACCTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGG
GTGCGTGTACCGGGCGGTGATGAGGAACACGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTG
GACTGCAGTGAAGCAGAGCTTCTGACCGAGGTGGAGCAGCTGTCCAGGTTTCGTACCCCAAACATTGTGGACTT
TGCTGGCTACTGTGCTCAGAACGGCTTCTACTGCCTGGTGTACGGCTTCTGCCCAACGGCTCCCTGGAGGACCG
TCTCCACTGCCAGACCCAGGCCTGCCACCTCTCTCTGGCCTCAGCGACTGGACATCCTTCTGGGTACAGCCCCG
GGCAATTTCAGTTTCTACATCAGGACAGCCCCAGCCTCATTCATGGAGACATCAAGAGTTCCAACGTCTTCTGGA
TGAGAGGCTGACACCCAAGCTGGGAGACTTTGGCCTGGCCCGGTTTCAGCCGCTTTGCCGGGTCCAGCCCCAGCCA
GAGCAGCATGGTGGCCCGGACACAGACAGTGCGGGGCACCCTGGCCTACCTGCCCGAGGAGTACATCAAGACGGG
AAGGCTGGCTGTGGACACGGACACCTTCAGCTTTGGGGTGGTAGTGCTAGAGACCTTGGCTGGTCAGAGGGCTGT
GAAGACGCACGGTGCCAGGACCAAGTATCTGAAAGACCTGGTGGAAAGAGGAGGCTGAGGAGGCTGGAGTGGCTTT
GAGAAGCACCCAGAGCACACTGCAAGCAGGTCTGGCTGCAGATGCCTGGGCTGCTCCCATCGCCATGCAGATCTA
CAAGAAGCACCTGGACCCCCAGGCCCGGGCCCTGCCACCTGAGCTGGGCTGGGCCAGCTGGCCTGCTG
CTGCCTGCACCGCCGGGGCCAAAAGGAGGCCTCCTATGACCCAGGTGTACGAGAGGCTAGAGAAGCTGCAGGCAGT
GGTGGCGGGGGTGCCCGGGCATTTGGAGGCCGCCAGCTGCATCCCCCTTCCCCGCAGGAGAACTCCTACGTGTC
CAGCACTGGCAGAGCCACAGTGGGGCTGCTCCATGGCAGCCCCCTGGCAGCGCCATCAGGAGCCAGTGCCAGGC
AGCAGAGCAGCTGCAGAGAGGCCCAACCAGCCGTGGAGAGTGACGAGAGCCTAGGCGGCCTCTCTGCTGCCCT
GCGCTCCTGGCACTTGACTCCAAGCTGCCCTCTGGACCCAGCACCCCTCAGGGAGGCCGGCTGTCTCAGGGGGA
CACGGCAGGAGAATCGAGCTGGGGGAGTGGCCAGGATCCCGGCCACAGCCGTGGAAGGACTGGCCCTTGGCAG
CTCTGCATCATCGTCTGTCAGAGCCACCGCAGATTATCATCAACCTTGCCCGACAGAAGATGGTCCAGAAGCTGGC
CCTGTACGAGGATGGGGCCCTGGACAGCCTGCAGCTGCTGTCTCAGCTCCCTCCAGGCTTGGGCCTGGAACA
GGACAGGCAGGGGCCCCGAAGAAAGTGATGAATTCAGAGCTTGATGTGTTACCTGGGCAGATCCCCCAAATCCGG
AAGTCAAAGTTCTCATGGTCAGAAAGTTCTCATGGTGCACGAGTCTCAGCACTCTGCCGGCAGTGGGGGTGGGGG
CCCATGCCCGCGGGGGAGAGAAGGAGGTGGCCCTGCTGTTCTAGGCTCTGTGGGCATAGGCAGGCAGAGTGGAAC
CCTGCCTCCATGCCAGCATCTGGGGGCAAGGAAGGCTGGCATCATCCAGTGAGGAGGCTGGCGCATGTTGGGAGG
CTGCTGGCTGCACAGACCCGTGAGGGGAGGAGAGGGGCTGCTGTGCAGGGGTGTGGAGTAGGGAGCTGGCTCCCC
TGAGAGCCATGCAGGGCGTCTGCAGCCCAGGCCTCTGGCAGCAGCTCTTTGCCCATCTCTTTGGACAGTGGCCAC
CCTGCACAATGGGGCCGACGAGGCCCTAGGGCCCTCTACCTGCTTACAATTTGGAAAAGTGTGGCCGGGTGCGGT
GGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGCTGGAGCCCAGTAGGTCAAGACCAG
CCAGGGCAACATGATGAGACCCTGTCTCTGCCAAAAAATTTTTTAAACTATTAGCCTGGCGTGGTAGCGCACGCC
TGTGGTCCCAGCTGCTGGGGAGGCTGAAGTAGGAGGATCATTTATGCTTGGGAGGTGAGGCTGCAGTGAATCAT
GATTGTATGACTGCACTCCAGCCTGGGTGACAGAGCAAGACCCTGTTTCAAAAAGAAAAACCTGGGAAAAGTGA
AGTATGGCTGTAAAGTCTCATGGTTCAGTCTTAGCAAGAAGCGAGAATTCTGAGATCCTCCAGAAAGTCGAGCAGC
ACCCACCTCCAACCTCGGGCCAGTGTCTTCAGGCTTTACTGGGGACCTGCGAGCTGGCCTAATGTGGTGGCCTGC
AAGCCAGGCCATCCCTGGGCGCCACAGACGAGCTCCGAGCCAGGTACGGCTTCGGAGGCCACAAGCTCAGCCTCA
GGCCCAGGCACTGATTGTGGCAGAGGGGCCACTACCCAAGGTCTAGCTAGGCCCAAGACCTAGTTACCCAGACAG
TGAGAAGCCCCCTGGAAGGCAGAAAAGTTGGGAGCATGGCAGACAGGGAAGGGAACATTTTCAGGGAAAAGACAT
GTATCACATGTCTTCAGAAGCAAGTCAGGTTTCATGTAACCGAGTGTCTCTTGGTGTCCAAAAGTAGCCAGG
GCTGTAGCACAGGCTTCACAGTGATTTTGTGTTTCAGCCGTGAGTCACACTACATGCCCCCGTGAAGCTGGGCATT
GGTGACGTCCAGGTTGTCTTGAGTAATAAAAACGTATGTTCCCTAAAAA

6855/6881
FIGURE 6333

MAGGGPGGEPAAPGAQHFLYEVPWVMCRFYKVMDALEPADWCQFAALIVRDQTELRLCERSGQRTASVLWPWIN
RNARVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAEAWSPRKLPSSASTFLSPAFFGS
QTHSGPELGLVPSPASLWPPPPSPAPSSTKPGPESSVSLQGARPSFFCWPLCEISRGTNHFSEELKIGEGGFGC
VYRAVMRNTVYAVKRLKENADLEWTAVKQSFLEVEQLSRFRHPNIVDFAGYCAQNGFYCLVYGFLPNGSLEDRL
HCQTQACFPPLSWPQRLDILLGTARAIQFLHQDSPSLIHGDIKSSNVLLDERLTPKLGDFGLARFSRFAGSSPSQS
SMVARTQTVRGTLAYLPEEYIKTGR LAVD TDFSGVVVLETLAQRAVKTHGARTKYLKDLVEEEEAEAGVALR
STQSTLQAGLAADAWAAPIAMQIYKKHLDPRPGPCPPELGLGLGQLACCC LHRRAKRRPPMTQVYERLEKLQAVV
AGVPGHLEAASCIPPSPOENSYVSSSTGRAHSGAAPWQPLAAPSGASQA AEQLQRGPNQPVESESLGGLSAALR
SWHLTPSCPLDPAPLREAGCPQGD TAGESSWGSGPGSRPTAVEGLALGSSASSSSEPPQIIINPARQKMOVQLAL
YEDGALDSLQLLSSSSSLPGLGLEQDRQGPEESDEFQS

6856/6881
FIGURE 6334A

GCGCGGTGCCGCCGGGAAAGATGTCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCCTGCCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTCATCACGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCCGAAGTGCAGTTCCGCT
GGAAGAGGGATGGTGTCCACTTCAAACCCAAGGAAGAGCTGGGTGTGACCGTGTACCACTCGCCCCACTCTGGCT
CCTTCACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATA
AGCTGGGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGACATCAAGCAGGACGAGCGGGTGACGATGGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCACGCCCACTTCCCAGGCACCAGGACCA
TCATTAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCCTGCTCT
TCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGACAGGGGCAGCCATTGGTCTTGGAGTGCATCGCCGAGGGCT
TTCCACGCCCAACCATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTACCTACCAGAACCACA
ACAAGACCCTGCAGCTGCTGAAAGTGGGCGAGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAACTCACTGG
GCAGTGGCCGGCATGCGTACTAATGTACCGTGGAGGCTGCCCCGTACTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGCCAGGAGAGACTGCCCCCTGGACTGCCAAGTCCAGGGCAGGCCCCAACCAGAGGTACCTGGAGAAATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACAGAACTACCGGATTACGCTGGCGCCCTGATCCTGAGCAACG
TGCAGCCAGTGACACAATGGTGACCAATGTGAGGCCCGCAACCGGCACGGGCTCTTGCTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGAGCGCCTGTGCCAGTGTTTCACTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCTATGCCAATGGGACCCTGGGCATTTCAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTGCCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGGCCCCCGCAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTACGCTGCCAGGCCTCCTTTG
ACCCCTCCTTGACAGCCAGCATCACCTGGCGTGGGGACGGTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGCGCCTGGTCAACAGCCTGGACTACAGCGACCAGGGCAACTACAGCTGCGTGGCCA
GTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGGAGCCCTGGGCCGGTGGCCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGACGCAGAGCCAGGTGCGCGTGTCTGGAGTCTGTCAGAAGACCACAATGCCC
CCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTTT
CAGGGAACCAGACCTCTACCACCCTCAAGCTGTGCGCCTATGTCCACTACACCTTTAGGGTTACTGCCATAAACA
AATATGGCCCCGGGGAGCCAGCCCGGTCTCTGAGACTGTGGTCAACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGAAGGAAATGAGACCACCAATATGGTCACTACGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCAGGTTTCACTACCGCGTGCAGTGGCGCCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCTGGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACCAGAGCCCCAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCAAGGCAATCCTGAGCTGG
AAGGCATTGAAATCCTCAACTCAAGTGCCGTGCTGGTCAAGTGGCGGCCGTGGACCTGGCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAAG
ACCATGTGGTGGTGGCCGCCAACACCACAGTGTATCCTCAGTGGCTTGCGGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCTTTAACGGGCGAGGATCGGGGCCCGCCAGCGAGTTACCTTCAGCACCCCAAGAGGGAGTGCCTG
GCCACCCCGAGGCGTTGCACCTGGAGTGCCAGTCAACACCAGCCTGCTGCTGCGCTGGCAGCCCCCACTCAGCC
ACAACGGCGTGCTACCGGCTACGTGCTCTCCTACCACCCCTGGATGAGGGGGGCAAGGGGCAACTGTCCTTCA
ACCTTCGGGACCCCGAATTCGGACACACAACCTGACCGATCTCAGCCCCACCTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAGAGGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCACTATGGCCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGGTGAAAACCTACAGTGTGCTCTCCTGGGTCCCCAAGGAGGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTCGCCACAGTATGTCA
GCTACAACCAGAGCTCCTACACGAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAGGAGA
GGATGTTCCGGCACCAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCA
CTGAGGGCTGGTTCATCGGCTTTGTGAGTGCCATCATCTCCTGCTCCTGCTCCTGCTCATCCTGCTTCATCA
AGCGCAGCAAGGGCGGCAAACTACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGCCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGGTCCCTGGAGAGTGACAACGAGGAGAAGGCCTTTGGCAGCAGCCAGCCAT

6857/6881

FIGURE 6334B

CGCTCAACGGGGACATCAAGCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTTCAGT
TCAACGAGGATGGTTTCGTTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCT
CAGGGGCCACTTCCCCCATCAACCCTGCCGTGGCCCTAGAATAGTGGAGTCCAGGACAGGAGATGCTGTGCCCT
GGCCTTGGGATCCAGGCCCCCTCCCTCTCCAGCAGGCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTG
CCTCGGATCCCCCTTCCTACCACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCCTGGGCACACGC
TGCTCTGCCCCAGCTTGGGCAGATCTCCACATGCCAGGGGCCTTTGGGTGCTGTTTTGCCAGCCCATTGTTGGCA
GAGAGGCTGTGGTTTGGGGGAGAAGAAGTAGGGGTGGCCGAAAGGGTCTCCGAAATGCTGTCTTTCTTGCTCCC
TGACTGGGGGCAGACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCAGCCACTCCCCAG
CCAGCCTGGCTGGGACTGGGAACAGAACTCGGTGTCCCCACCATCTGCTGTCTTTTCTTTGCCATCTCTGCTCCA
ACCGGGATGGGAGCCGGGCAAACTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCAGAGTCCCCCACTCC
CAGCATCGCACTCTGGCAGCACCGCCTCTTCCCGCCGCCAGCCCACCCCATGGCCGGCTTTTCAGGAGCTCCATA
CACACGCTGCCTTCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACAC
CTCCTCCCACTGCCCACTGGCCGGC

6858/6881
FIGURE 6335

MVVALRYVWPLLLCSPCLLIQIPEEYEGHHVMEPPVITEQSPRRLVVFPTDDISLKCEASGKPEVQFRWTRDGVH
FKPKEELGVTVYQSPHSGSFITITGNNSNFAQRFQGIYRCFASNKLGTA MSHEIRLMAEGAPKWPKETVKPVEVEE
GESVVLPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTS DNHSDYICHAHFPGTRTIIQKEPI
DLRVKATNSMIDRKPRLLFPTNSSSHLVALQGQPLVLECI AEGFPTPTIKWLRPSGMPADRVTYQNHNKTLQLL
KVGEEDDGEYRCLAENSLGSARHAYYVTVEAAPYWLHKPQSHLYGPGETARLDCQVQGRPQPEVTWRINGIPVEE
LAKDQKYRIQRGALILSNVQPSDTMVTQCEARNRHG LLLANAYIYVVQLPAKILTADNQTYMAVQGSTAYLLCKA
FGAPVPSVQWLDEDGTTVLQDERFFPYANGTLGIRD LQANDTGRYFCLAANDQNNVTIMANLKVKDATQITQGPR
STIEKKGSRVTFTCQASFDPQLQPSITWRGDGRDLQELGDS DKYFIEDGRLVIHSLDYS DQGNYS CVASTELDVV
ESRAQLLVVGSPGPVPRVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTST
TLKLSPYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGEGNETTNMVI TWKPLRWMDWNAPQVQY
RVQWRPQGTRGPWQEIQIVSDPFLVVSNTSTFVPYEIKVQAVNSQKGPEPQVTIGYSGEDYPQAIPELEGIEILN
SSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNG
RGSGPASEFTTFSTPEGVPGHPEALHLECQSN TSLLRWQPPLSHNGVLTGYVLSYHPLDEGGKGQLSFNLRDP EL
RTHNLTDLSPHLRYRFLQATTKEGPGEAIVREGGTMALSGISDFGNISATAGENYSVVS WVPKEGQC NFRFHIL
FKALGEEKGGASLSPQYVSYNQSSYTQWDLQPD TDYEIHLFKERMFRHQMAVKTNGTGRVRLPPAGFATEGWFIG
FVSAIILLLLVLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYRSLES DNEEKAFGSSQPSLNGDIK
PLGSDDSLADYGGSVDVQFNEDGSFIGQYSGKKEKEAAGGNDSSGATSPINPAVALE

6859/6881
FIGURE 6336A

GCGCGGTGCCGCCGGGAAAGATGGTTCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCCTGCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTCATCACGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCCGAAGTGCAGTTCCGCT
GGACGAGGGATGGTGTCCACTTCAAACCCAAGGAAGAGCTGGGTGTGACCGTGTACCAGTCGCCCCACTCTGGCT
CCTTCACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATA
AGCTGGGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGACATCAAGCAGGACGAGCGGGTGACGATGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCACGCCCACTTCCAGGCACCCAGGACCA
TCATTAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCCTGCTCT
TCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGACGGGGCAGCCATTGGTCCCTGGAGTGCATCGCCGAGGGCT
TTCCACGCCCAACCATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTACCTACCAGAACCACA
ACAAGACCTGCAGCTGCTGAAAGTGGGCGAGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAACTCACTGG
GCAGTGGCCGGCATGCGTACTATGTACCGTGGAGGCTGCCCCGTAAGTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGCCAGGAGAGACTGCCCCGCTGGACTGCCAAGTCCAGGGCAGGCCCCAACCAGAGGTCACCTGGGAGATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACCAGAAGTACCGGATTACGCGTGGCGCCCTGATCCTGAGCAACG
TGCAGCCAGTGACACAATGGTGACCCAATGTGAGGCCCGCAACCGGCACGGGCTCTTGCTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGAGCGCCTGTGCCAGTGTTCAGTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCCATGCCAATGGGACCTTGGGCATTGAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTGCCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGGCCCCGAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTCACGTGCCAGGCCTCCTTTG
ACCCCTCCTTGACGCCCATCACCTGGCGTGGGGACGGTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGCGCCTGGTTCATCCACAGCCTGGACTACAGCGACCCAGGGCAACTACAGCTGCGTGGCCA
GTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGGAGCCCTGGGCCGGTGCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGACGCAGAGCCAGGTGCGCGTGTCTGGAGTCTGTCAGAAGACCACAATGCCC
CCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTTT
CAGGGAACCAGACCTCTACCAACCTCAAGCTGTGCGCCTATGTCCACTACACCTTTAGGGTTACTGCCATAAACA
AATATGGCCCCGGGGAGCCAGCCCGGTCTCTGAGACTGTGGTCACACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGAAGGAAATGAGACCACCAATATGGTTCATCACGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCAGGTTTCACTACCGCGTGCAGTGGCGCCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCTTGGTGGTGTCCAACACGTCCACCTTCTGTCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACCAGAGCCCCAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCAAGCAATCCCTGAGCTGG
AAGGCATTGAAATCCTCAACTCAAGTGCCGTGCTGGTCAAGTGGCGGCCGGTGGACCTGGCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAAG
ACCATGTGGTGGTGGCCGCCAACACCACAGTGTCTCCTCAGTGGCTTGGCGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCTTTAACGGGCGAGGATCGGGGCCCCGAGCGAGTTCACCTTCAGCACCCAGAGGGAGTGCCTG
GCCACCCCGAGGCGTGTACCTGGAGTGCCAGTCAACACCAGCCTGCTGCTGCGCTGGCAGCCCCCACTCAGCC
ACAACGGCGTGTCTACCGGCTACGTGCTCTCCTACCACCCCTGGATGAGGGGGGCAAGGGGCAACTGTCTTTCA
ACCTTCGGGACCCCGAATTCGGACACACAACCTGACCGATCTCAGCCCCACCTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAGAGGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCACTATGGCCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGGTGAAGTACAGTGTCTCTCTGGGTCCCCAAGGAGGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTCGCCACAGTATGTCA
GCTACAACCAGAGCTCCTACACGCAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAGGAGA
GGATGTTCCGGCACCAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCA
CTGAGGGCTGGTTCATCGGCTTTGTGAGTGCCATCATCTCCTGCTCCTGCTCCTGCTCATCCTCTGCTTCATCA
AGCGCAGCAAGGGCGGCAAACTACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGCCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGTGACAACGAGGAGAAGGCCTTTGGCAGCAGCCAGCCATCGCTCAACGGGG

6860/6881
FIGURE 6336B

ACATCAAGCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTTCAGTTCAACGAGGATG
GTTTCGTTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCTCAGGGGCCACTT
CCCCATCAACCCTGCCGTGGCCCTAGAATAGTGGAGTCCAGGACAGGAGATGCTGTGCCCTGGCCTTGGGATC
CAGGCCCCCTCCCTCTCCAGCAGGCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTGCCTCGGATCCCC
TTCCTACCACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCCTGGGCACACGCTGCTCTGCCCCA
GCTTGGGCAGATCTCCACATGCCAGGGGCCTTTGGGTGCTGTTTTGCCAGCCCATTTGGGCAGAGAGGCTGTGG
TTTGGGGGAGAAGAAGTAGGGGTGGCCCGAAAGGGTCTCCGAAATGCTGTCTTTCTTGCTCCCTGACTGGGGGCA
GACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCCAGCCACTCCCCAGCCAGCCTGGCTG
GGACTGGGAACAGAACTCGGTGTCCCCACCATCTGCTGTCTTTCTTTGCCATCTCTGCTCCAACCGGGATGGGA
GCCGGGCAAACCTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCCAGAGTCCCCCCTCCAGCATCGCACT
CTGGCAGCACCGCCTCTTCCCGCCGCCAGCCACCCCATGGCCGGCTTTCAGGAGCTCCATACACACGCTGCCT
TCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACACCTCCTCCCACTG
CCCACTGGCCGGC

6861/6881
FIGURE 6337

MVVALRYVWPLLLCSPCLLIQIPEEYEGHHVMEPPVITEQSPRRLVVFPPTDDISLKCEASGKPEVQFRWTRDGVH
FKPKEELGVTVYQSPHSGSFTTITGNNSNFAQRFOGIYRCFASNKLGTAMSHEIRLMAEGAPKWPKETVKPVEVEE
GESVVLPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTSDNHSDYICAHFPGTRTIIQKEPI
DLRVKATNSMIDRKPRLLFPTNSSSHLVALQGQPLVLECIAEGFPTPTIKWLRPSGMPADRVTYQNHNKTLQLL
KVGEEDDGEYRCLAENSLGSARHAYYVTVEAAPYWLHKPQSHLYGPGETARLDCQVQGRPQPEVTWRINGIPVEE
LAKDQKYRIQRGALILSNVQPSDTMVTQCEARNRHGLLLANAYIYVVQLPAKILTADNQTYMAVQGSTAYLLCKA
FGAPVPSVQWLDEDGTTVLQDERFFPYANGTLGIRDLOANDTGRYFCLAANDQNNVTIMANLKVKDATQITQGPR
STIEKKGSRVTFTCQASFDPSLQPSITWRGDGRDLQELGDSKYFIEDGRLVIHSLDYSQGNYSVCVASTELDVV
ESRAQLLVGSPGPVPRVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTST
TLKLSPYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGEGETTNMVTWKPLRWMDWNAPQVQY
RVQWRPQGTGRGPWQEQIVSDPFLVVSNTSTFVPYEIKVQAVNSQKGPEPQVTIGYSGEDYPQAIPELEGIEILN
SSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNG
RGSGPASEFTTFSTPEGVPGHPEALHLECQSNLSLLLRWQPPLSHNGVLTGYVLSYHPLDEGGKGQLSFNLRDP
RTHNLTDLSPHLRYPQLQATTKEGPGGEAIVREGGTMALSGISDFGNISATAGENYSVVSVPKEGQCNRFRHIL
FKALGEEKGGASLSPQYVSYNQSSYTQWDLQPDTDYEIHLFKERMFRHQMAVKTNGTGRVRLPPAGFATEGWFIG
FVSAIILLLLVLLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYSDNEEKAFGSSQPSLNGDIKPLGS
DDSLADYGGSDVDVQFNEDGSFIGQYSGKKEKEAAGGNDSSGATSPINPAVALE

6862/6881
FIGURE 6338

TCGTGTTTCATGGGAGCTCGTTTTCTTTTCCTCTAGGCAGAGAAGAGGCGATGGCGGCGATGGCATCTCTCGGCGC
CCTGGCGCTGCTCCTGCTGTCCAGCCTCTCCCGCTGCTCAGCCGAGGCCTGCCTGGAGCCCCAGATCACCCTTC
CTACTACACCACTTCTGACGCTGTCATTTCCACTGAGACCGTCTTCATTGTGGAGATCTCCCTGACATGCAAGAA
CAGGGTCCAGAACATGGCTCTCTATGCTGACGTCGGTGGAAAAACAATTCCTGTCACTCGAGGCCAGGATGTGGG
GCGTTATCAGGTGTCCTGGAGCCTGGACCACAAGAGCGCCACGCAGGCACCTATGAGGTTAGATTCTTCGACGA
GGAGTCCTACAGCCTCCTCAGGAAGGCTCAGAGGAATAACGAGGACATTTCCATCATCCCGCCTCTGTTTACAGT
CAGCGTGGACCATCGGGGCACTTGGAACGGGCCCTGGGTGTCCACTGAGGTGCTGGCTGCGGCGATCGGCCTTGT
GATCTACTACTTGGCCTTCAGTGCGAAGAGCCACATCCAGGCCTGAGGGCGGCACCCCAGCCCTGCCCTTGCTTC
CTTCAATAAACATCACAGGACCTGGGACTGCACAGGAAAAAA

6863/6881
FIGURE 6339

MAAMASLGALALLLLSSLSRCSAEACLEPQITPSYYTTSDAVISTETVFIVEISLTCKNRVQNMALYADVGGKQF
PVTRGQDVGRYQVSWSLDHKSAHAGTYEVRFFDEESYSLLRKAQRNNEDISIIPPLFTVSVDHRGTWNGPWVSTE
VLAAAIGLVIYYLAFSAKSHIQA

6864/6881
FIGURE 6340

GGGCGGGGGTTCGCGGTCCCCCTCAACATGGCGGCAGCGGTGCTCTAGGCGCCGGAAGGGGGCGTGAATCGGTG
CGACCGCGCGCGTGCAGTACCGGGTCCGCGCCTGTCCCCGAACTTCGCACCCCGTCGAACTCTCGCGAGAGC
GTATCTGCGTGTCTGGGACGTGCGGAGGCTCTCACTTTCCGTCTATGGCGCTGAAGGTAGCGACCGTCGCCGGCAGC
GCCGCGAAGGCGGTGCTCGGGCCAGCCCTTCTCTGCCGTCCCTGGGAGGTTCTAGGCGCCACGAGGTCCCCTCG
AGGAACATCTTTTCAGAACAAACAATTCCCTCCGTCCGCTAAGTATGGCGGGCGGCACACGGTGACCATGATCCCA
GGGGATGGCATCGGGCCAGAGCTCATGCTGCATGTCAAGTCCGTCTTCAGGCACGCATGTGTACCAGTGGACTTT
GAAGAGGTGCACGTGAGTTCCAATGCTGATGAAGAGGACATTGCAATGCCATCATGGCCATCCGCCGGAACCGC
GTGGCCCTGAAGGGCAACATCGAAACCAACCATAACCTGCCACCGTCGCACAAATCTCGAAACAACATCCTTCGC
ACCAGCCTGGACCTCTATGCCAACGTCATCCACTGTAAGAGCCTTCCAGGCGTGGTGACCCGGGCACAAGGACATA
GACATCCTCATTGTCCGGGAGAACACAGAGGGCGAGTACAGCAGCCTGGAGCATGAGAGTGTGGCGGGAGTGGTG
GAGAGCCTGAAGATCATCACCAAGGCCAAGTCCCTGCGCATTGCCGAGTATGCCTTCAAGCTGGCGCAGGAGAGC
GGGCGCAAGAAAGTGACGGCCGTGCACAAGGCCAACATCATGAACTGGGCGATGGGCTTTTCTCCAGTGTCTGC
AGGGAGGTGGCAGCCCGCTACCCTCAGATCACCTTCGAGAACATGATTGTGGATAACACCACCATGCAGCTGGTG
TCCCGGCCCCAGCAGTTTGATGTCATGGTGATGCCCAATCTCTATGGCAACATCGTCAACAATGTCTGCGCGGGA
CTGGTTCGGGGGCCAGGCCTTGTGGCTGGGGCCAACTATGGCCATGTGTACGCGGTGTTTGAAACAGCTACGAGG
AACACCGGCAAGAGTATCGCCAATAAGAACATCGCCAACCCACGGCCACCCTGCTGGCCAGCTGCATGATGCTG
GACCACCTCAAGCTGCACTCCTATGCCACCTCCATCCGTAAGGCTGTCCTGGCATCCATGGACAATGAGAATATG
CACACTCCGGACATCGGGGGCCAGGGCACAACATCTGAAGCCATCCAGGACGTCATCCGCCACATCCGCGTCATC
AACGGCCGGGCGGTGGAGGCCTAGGCTGGCCCTAGGACCTTCTTGGTTTGCTCCTTGGATTCCCCTTCCACTCC
AGCACCCAGCCAGCCTGGTACGCAGATCCCAGAATAAAGCACCTTCTCCCTAGAAAAAAAAAAAAAAAAAAAAA
AAAAAA

6865/6881

FIGURE 6341

MALKVATVAGSAAKAVLGPALLCRPWVVLGAHEVPSRNIFSEQTIPPSAKYGGRHTVTMIPGDGIGPELMLHVKS
VFRHACVPVDFEEVHVSSNADEEDIRNAIMAIRRNRVALKGNIETNHNLPESHKSRNNILRTSLDLYANVIHCKS
LPGVVTRHKDIDILIVRENTEGEYSSLEHESVAGVVESLKIIITKAKSLRIA EYAFKLAQESGRKKVTAVHKANIM
KLG DGLFLQCCREVAARYPQITFENMIVDNTTMQLVSRPQQFDVMVMPNLYGNIVNNVCAGLVGGPGLVAGANYG
HVYAVFETATRNTGKSIANKNIANPTATLLASCMLDHLKLHSYATSIRKAVLASMDNENMHTPDIGGQGTSEA
IQDVIRHIRVINGRAVEA

6866/6881
FIGURE 6342A

GCGGACGGACGCGCCTGGTGCCCCGGGGAGGGGCGCCACCGGGGGAGGAGGAGGAGAGAAGGTGGAGAGGAAGA
GACGCCCCCTCTGCCCGAGACCTCTCAAGGCCCTGACCTCAGGGGCCAGGGCACTGACAGGACAGGAGAGCCAAG
TTCTCTCACTTGGGCTGCCCCAAGAGGCCGCGACCCCTGGAGGGCCCTGAGCCCACCGCACCAGGGGCCCCAGCAC
CACCCCGGGGGCCTAAAGCGACAGTCTCAGGGGCCATCGCAAGGTTTCCAGTTGCCTAGACAACAGGCCAGGGT
CAGAGCAACAATCCTTCCAGCCACCTGCCTCAACTGCTGCCCCAGGCACCAGCCCCAGTCCCTACGCGGCAGCCA
GCCCAGGTGACATGCGCGGTGCTCTCCAGGCCCCGGCCCTGGCGGGGGAACACGCTGAAGCGCACGGCCGTGCTCC
TGGCCCTCGCGGCCTATGGAGCCCAAAAGTCTACCCCTTGGTGCGCCAGTGCCCTGGCCCCGGCCAGGGGTCTTC
AGGCGCCCGCCGGGGAGCCACGCAGGAGGCCTCCGGGGTGCGGCGGCCAAAGCTGGCATGAACCGGGTATTCC
TGCAGCGGCTCCTGTGGCTCCTGCGGCTGCTGTTCCCCCGGGTCTGTGCCGGGAGACGGGGCTGCTGGCCCTGC
ACTCGGCCGCTTGGTGAGCCGCACCTTCTGTGCGGTGTATGTGGCCCGCTGGACGGAAGGCTGGCCCGCTGCA
TCGTCCGCAAGGACCCGCGGGCTTTTGGCTGGCAGCTGCTGCAGTGGCTCCTCATCGCCCTCCCTGCTACCTTCG
TCAACAGTGCCATCCGTTACCTGGAGGGCCAAGTGGCCCTGTGCTTCCGAGCCGTCTGGTGGCCACGCCTACC
GCCTCTACTTCTCCCAGCAGACCTACTACCGGGTCAGCAACATGGACGGGCGGCTTCGCAACCCTGACCAGTCTC
TGACGGAGGACGTGGTGGCCTTTGCGGCCTCTGTGGCCACCTCTACTCCAACCTGACCAAGCCACTCCTGGACG
TGGCTGTGACTTCTACACCCTGCTTCGGGCGGGCCCGCTCCCGTGGAGCCGGCACAGCCTGGCCCTCGGCCATCG
CCGGCCTCGTGGTGTTCCTACGGCCAACGTGCTGCGGGCCTTCTCGCCCAAGTTCGGGGAGCTGGTGGCAGAGG
AGGCGCGGGCGGAAGGGGGAGCTGCGCTACATGCACTCGCGTGTGGTGGCCAACCTCGGAGGAGATCGCCTTCTATG
GGGGCCATGAGGTGGAGCTGGCCCTGCTACAGCGCTCCTACCAGGACCTGGCCTCGCAGATCAACCTCATCCTTC
TGGAACGCCTGTGGTATGTTATGCTGGAGCAGTTCTCATGAAGTATGTGTGGAGCGCCTCGGGCCTGCTCATGG
TGGCTGTCCCCATCATCACTGCCACTGGCTACTCAGAGTCAGATGCAGAGGCCGTGAAGAAGGCAGCCTTGGA
AGAAGGAGGAGGAGCTGGTGAGCGAGCGCACAGAAGCCTTCACTATTGCCCGCAACCTCCTGACAGCGGCTGCAG
ATGCCATTGAGCGGATCATGTGCTGCTACAAGGAGGTGACGGAGCTGGCTGGCTACACAGCCCGGGTGCACGAGA
TGTTCCAGGTATTTGAAGATGTTTCAGCGCTGTCACTTCAAGAGGCCAGGGAGCTAGAGGACGCTCAGGCGGGGT
CTGGGACCATAGGCCGGTCTGGTGTCCGTGTGGAGGGCCCCCTGAAGATCCGAGGCCAGGTGGTGGATGTGGAAC
AGGGGATCATCTGCGAGAACATCCCCATCGTCACGCCCTCAGGAGAGGTGGTGGTGGCCAGCCTCAACATCAGGG
TGGAGGAAGGCATGCATCTGCTCATCACAGGCCCAATGGCTGCGGCAAGAGCTCCCTGTTCCGGATCCTGGGTG
GGCTCTGGCCACGTACGGTGGTGTGCTCTACAAGCCCCACCCAGCGCATGTTCTACATCCCGCAGAGGCCCT
ACATGTCTGTGGGCTCCCTGCGTGACAGGTGATCTACCCGGACTCAGTGGAGGACATGCAAAGGAAGGGCTACT
CGGAGCAGGACCTGGAAGCCATCCTGGACGTGCTGCACCTGCACCACATCCTGCAGCGGGAGGGAGGTGGGAGG
CTATGTGTGACTGGAAGGACGTCTGTGCGGTGGCGAGAAGCAGAGAATCGGCATGGCCCGCATGTTCTACCACA
GGCCCAAGTACGCCCTCCTGGATGAATGCACCAGCGCCGTGAGCATCGACGTGGAAGGCAAGATCTTCCAGGCGG
CCAAGGACGCGGCATTGCCCTGCTCTCCATCACCCACCGGCCCTCCCTGTGGAAATACCACACACACTTGCTAC
AGTTCGATGGGAGGGCGGCTGGAAGTTCGAGAAGCTGGACTCAGCTGCCCCGCTGAGCCTGACGGAGGAGAAGC
AGCGGTGGAGCAGCAGCTGGCGGCATTCCCAAGATGCAGCGGCGCCTCCAGGAGCTCTGCCAGATCCTGGGCG
AGGCCGTGGCCCCAGCGCATGTGCCGGCACCTAGCCCGCAAGGCCCTGGTGGCCTCCAGGGTGCCTCCACCTGAC
ACAACCGTCCCCGGCCCCCTGCCCCGCCCAAGCTCGGATCACATGAAGGAGACAGCAGCACCCACCCATGCACG
CACCCCGCCCTGCATGCCTGGCCCTCCTCCTAGAAAACCTTCCCCGCCCTCGGGAAGTAGATGTGGAGGGTG
GCGCCCTGCGTAACCCTCGCCCTGTCCCTCCCACTCCCTGGGGGCGCTGTTCCACAGTGACTGGGCCCTGTCCAG
GGCAGTGAGTCTCTACTTTGCTCCGCGGAGGAAGCTGGGGTACAAGGGGCCAGTGCTGGCCACACAGCAGCGC
AGCCGAGCCCCAGGAGCCCGTCAGGCCACAGCCCTGGCACTGCAGGTGGCCTCCCTCCAGAGACTCGAGTCCCC
ATGATTCCCTCCTCGTCAGTCTCTCAAAGACCCCATGGTCCATCCCTGAGGGTGGTCAGCCAAGGCTCCCGTTC
CGTGGGATGCCATAAAAGCCGCCAGTGGGACCCACAGTCACACAGAGCGCCTCACCTGCATCCTCTCCCCACA
AGAGCCCCAAAGATCCCACGGGAGAGGGGAGAGGGACGCACAGCACTGCCTGCCAAGCGAGAATGCAGGCCCGC
CCCCTCGGCCCCCTACCACCTCTTTCTACAGCCTAATTTATTGGATTCCCTATTTCGTAGCCATCTCCGTGGCCAA
TGTGACTACCGTGCCAGCAGCGGGGGCGGCCAGCCTCTGAGTCCCGTGGGGCCCCGGCTCCACCGGTGCCAAA
CCAGCCCCCTGCGGCCGTACCCCGCCAGCCTACACTGCCAGCCGCCACCGGGGCACACGGGCCTCTGCTTGCCA
GCCAGGAGTGCGGACACCATGTTCCAGCTCAGTGCCAAAGAGGGGTACCAGGGGGAGCTGTCTGCGGAGCCAG
CGCTGCCCGAGAGAGACCCACCGCCACCGTGTGCCTTTCCCGGGCCCTCAGCCCTCGGGCCGGGCACCACCC

6867/6881
FIGURE 6342B

CAGTCCCCCCAGTAAA

6868/6881
FIGURE 6343

MPVLSRPRPWRGNTLKR TAVLLALAAYGAHKVYPLVRQCLAPARGLQAPAGEPTQEASGVAAAKAGMNRVFLQRL
LWLLRLLFPRLCRETGLLALHSAALVSRTFLSVYVARLDGRLARCIVRKDPRAFGWQLLQWLLIALPATFVNSA
IRYLEGQLALSFRSRLVAHAYRLYFSQQTYRVSNM DGR LRNP DQSLTEDVVAFAASVAHLYSNLTKPLLDVAVT
SYTLLRAARSRGAGTAWPSAIAGLVVFLTANVLR AFSPKFGELVAEEARRKGELRYMHSRVVANSEEIAFYGGHE
VELALLQRSYQDLASQINLILLERLWYVMLEQFLMKYVWSASGLLMVAVPIITATGYSESDAEAVKKALEKKEE
ELVSE RTEAFTIARNLLTAAADAIERIMSSYKEVTELAGYTARVHEMFQVFEDVQRC HFKRPRELEDAQAGSGTI
GRSGVRVEGPLKIRGQVVDVEQGIICENIPIVTPSGEVVVASLNIRVEEGMHLLITGPNGCGKSSLFRI LGG LWP
TYGGVLYKPPPQRMFYIPQRPYMSVGS LR DQVIY PDSVEDMQRKGYSEQDLEAILDVVHLHHILQREGGWEAMCD
WKDVLSGGEKQRIGMARMFYHRPKYALLDECTSAVSIDVEGKIFQAAKDAGIALLSITHRPSLWKYH THLLQFDG
EGGWKFEKLDSAARLSLTEEKQRLEQQLAGIPKMQRRLQELCQILGEAVAPAHVPAPSPQGPGLQGAST

6869/6881
FIGURE 6344

TTTCCGGCCGCGGTATGAGGGGCGGGGCCGGGGCTGCTGTGGGAGAGTTTCGGTTGCTGCGGCGGGGCCTGCACGT
TGA CTGTGGGAAACTCGGAAACAAGCTCACATCTTCCTGTGGGAAACCTTCTAGCAACAGGATGAGTCTGCAGTG
GACTGCAGTTGCCACCTTCCTCTATGCGGAGGTCITTTGTTGTGTGCTTCTCTGCATTCCCTTCATTTCTCCTAA
AAGATGGCAGAAGATTTTCAAGTCCCGGCTGGTGGAGTTGTTAGTGTCTATGGCAACACCTTCTTTGTGTTCT
CATTGTTCATCCTTGTGCTGTTGGTCATCGATGCCGTGCGCGAAATTCGGAAGTATGATGATGTGACGGAAAAGGT
GAACCTCCAGAACAATCCCGGGGCCATGGAGCACTTCCACATGAAGCTTTTCCGTGCCCAGAGGAATCTCTACAT
TGCTGGCTTTTTCCTTGCTGCTGTCTTCCTGCTTAGACGCCTGGTGA CTCTCATTTTCGCAGCAGGCCACGCTGCT
GGCCTCCAATGAAGCCTTTAAAAAGCAGGCGGAGAGTGCTAGTGAGGCGGCCAAGAAGTACATGGAGGAGAAATGA
CCAGCTCAAGAAGGGAGCTGCTGTTGACGGAGGCAAGTTGGATGTCGGGAATGCTGAGGTGAAGTTGGAGGAAGA
GAACAGGAGCCTGAAGGCTGACCTGCAGAAGCTAAAGGACGAGCTGGCCAGCACTAAGCAAAAAGTACAGAGAAAGC
TGAAAACCAGGTTCTGGCCATGCGGAAGCAGTCTGAGGGCCTCACCAGGAGTACGACCGCTTGCTGGAGGAGCA
CGCAAAGCTGCAGGCTGCAGTAGATGGTCCCATGGACAAGAAGGAAGAGTAAGGGCCTCCTTCTCCCTGCCTG
CAGCTGGCTTCCACCTGGCACGTGCTGCTTCCTGAGAGCCCGGCCTCTCCCTCCAGTACTTCTGTTTGTGC
CCTTCTGCTTCCCCCATTCCCTTCCACAGCTCATAGCTCGTCATCTCGGCCCTTGTCACACTCTCCAAGCACAT
TACAGGGGACCTGATTGCTACACGTTTCAAGATGCGTTTGCTGTCTATCCTGCTTGGCCTGGCCAGGCCTGGCACAG
CCTTGGCTTCCACGCCTGAGCGTGGAGAGCACGAGTTAGTTGTAGTCCGGCTTGCGGTGGGGCTGACTTCCTGTT
GGTTTGAGCCCCTTTTTGTTTTGCCCTCTGGGTGTTTTCTTTGGTCCCGCAGGAGGGTGGGTGGAACAGGTGGAC
TGGAGTTTCTTTGAGGGCAATAAAAGTTTTTCATGGTGG

6870/6881
FIGURE 6345

MSLQWTAVATFLYAEVFVLLLCIPFISPKRWQKIFKSRLVELLVSYGNTFFVVLIVILVLLVIDAVREIRKYDD
VTEKVNLONNPGAMEHFHMKLFRAQRNLYIAGFSLLLSFLLRRLVTLSQQATLLASNEAFKKQAESASEAAKKY
MEENDQLKKGAAVDGGKLDVGNAEVKLEENRSLKADLQKLKDELASTKQKLEKAENQVLAMRKQSEGLTKEYDR
LLEEHAQLQAAVDGPMCKEE

6871/6881
FIGURE 6346

GCTTCTGCGCGCCGGGGCCGCCTCTCCTTCCGCCGGTGCCGCGGCGCCTCATGGAAGCCCCGGAGGCGGCGGAGG
GGGGCCTGCAGCGCGGGGCCCGGAGGGCAGCCGGCGCCCCGAAGCCAGGGTGCACTTCCGAGTGGCGAGGTTTCATC
ATGGAGGCAGGTGTCAAGCTAGGGATGCGGTCCATTCCCATTGCCACTGCTTGCAACATTTACCATAAGTTCTTT
TGCGAGACCAACCTGGACGCCTATGACCCTTACCTGATTGCCATGTCTTCAATTTACTTGGCCGGCAAAGTGGAA
GAGCAGCACCTGCGGACTCGTGACATCATCAATGTGTCCAACAGGTACTTTAACCCAAGCGGTGAGCCCCCTGGAA
TTGGACTCCCGCTTCTGGGAACTCCGGGACAGCATCGTGAGTGTGAGCTTCTCATGCTGAGAGTTCTGCGCTTC
CAGGTCTCCTTCCAGCATCCACACAAGTACCTGCTCCACTACCTGGTTTCCCTCCAGAACTGGCTGAACCGCCAC
AGCTGGCAGCGGACCCCTGTTGCCGTCACCGCCTGGGCCCTGCTGCGGGACAGCTACCATGGGGCGCTGTGCCTC
CGCTTCCAGGCCCAGCACATCGCCGTGGCGGTGCTCTACCTGGCCCTGCAGGTCTACGGAGTTGAGGTGCCCGCC
GAGGTGAGGCTGAGAAGCCGTGGTGGCAGGTGTTTAATGACGACCTTACCAAGCCAATCATTGATAATATTGTG
TCTGATCTCATTGAGATTTATACCATGGACACAGAGATCCCCTAAGGTCCTGGCCCAGGCCTGCCCAAAGAGAAG
CCACATCTGCGTTTGTCTTTGAGAGGACTTTGACTACAATACAGGCATGACATCAATGAAAGGAAAGTCATGAA
ATCGATGAGACTGAATCCCTACGGATTTCTTAAAAGCCAGATTTGTAGGGAGAATGAATGTGCAACGTGGCTGAA
ATCTATTTTGTGTAATAAAAGGTGATACAAGTC

6872/6881
FIGURE 6347

MEAGVKLGMRSIPIATACTIYHKFFCETNLDAYDPYLIAMSSIYLAGKVEEQHLRTRDIINVSNNRYFNPSGEPL
LDSRFWELRDSIVQCELLMLRVLRQVSFQHPHKYLLHYLVSLQNWLNRRHSWQRTPVAVTAWALLRDSYHGALCL
RFQAQHIHAVVLYLALQVYGVEVPAEVEAEKPWWQVFNDLTKPIIDNIVSDLIQIYTMDTEIP

6873/6881
FIGURE 6348

[illegible]

6874/6881
FIGURE 6349

TTTAGGGAGAAGAAAGCAACCCTTAAAATAGAGGAAAATGAAGCTGCTTGGATTACCCTGTTGAAGTTCATCTCT
GCCTGTGCCATGCATGAAAAAATACTGGCAAAGTCTTCACTTACATGAGTGTTAGACTCCATGTTCCCAGTGGGT
CTCGGGGTTTCAGAACTGAGTGCTCTCATCCAAGCAATAGGAGCGTCGACCTCAGGAAAGCCCAAGTGTTTTGTGT
GTATTTTGAGGAGTGGGTTATCTGTTGCACTGAGCCTCTCTGTGTATTTTCTTCTTTTTCAGCAGAACAAAGG
GAGGTGGACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTTCAGCGTACTCTTTTAGAGAAATAGAAG
ATTGTCGGCAGAAACAGCCCAGGCGTTGGCAGCAGGGTTAGAACAGCTGCCTGAGGCTCCTCCCTGAAGGACACC
TGCCTGAGAGCAGAGATGGAGGCCTTCTGTTTAC

6875/6881
FIGURE 6350

CAGAGTTTCGCCATGGCCCCGGGGCCCCAAGAAGCACTTAAAGCGTGTTGCAGCGCCGAAGCATTGGATGCTTGAC
AAACTAACGGGTGTATTTGCACCTCGTCCATCGACAGGTCCCCACAAGCTGAGGGAATGTCTTCCTCTGATCGTC
TTCCTCAGGAATAGACTCAAGTATGCGTTGACTGGAGATGAGGTAAAGAAGATATGTATGCAACGTTTCATCAA
ATTGATGGCAAGGTTCGAGTGGATGTCACATACCCTGCTGGATTTCATGGATGTCATCAGCATCGAGAAGACAGGT
GAACATTTCCGCCTGGTCTATGACACCAAGGGCCGTTTTTGCTGTTTCACCGCATCACAGTGGAAAGAGGCAAAGTAC
AAGTTGTGCAAAGTGAGGAAGATTACTGTGGGAGTGAAGGGAATCCCTCACCTGGTGACTCATGATGCTCGAACC
ATCCGCTACCCAGATCCTGTTCATCAAGGTGAACGATACTGTGCAGATTGATTTAGGGACTGGCAAGATAATCAAC
TTTATCAAATTTGATACAGGCAATTTGTGTATGGTGAATTGGTGGAGCCAACCTCGGTCGTGTTGGTGTGATCACC
AACAGGGAAAGACATCCTGGTTCTTTTGATGTGGTGCATGTGAAGGATGCCAATGGCAACAGCTTTGCCACGAGG
CTTTCCAACATTTTGTTCATTGGCAATGGCAATAAACCTTGGATTTCCCTGCCCAGGGGAAAGGGCATTTCGACTT
ACTGTTGCTGAAGAGAGAGATAAGAGGCTGGCCACCAACAGAGCAGTGGCTAAATTGCAGTAGCAGCATATCTT
TTTTTCTTTGCACAAATAAACAGTGAATTCTCGTTT

6876/6881

FIGURE 6351

CTAGTTTCTCAGGATCATGTCTGTGAGCCAGGATTCTTGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGA
ATGCGTCATTGAGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCG
TGACATCTATGCCTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCAAGCCATTCTACCTTGTATCAGGGGTTA
TAATGTAATCGCTCAAGCCCGATCTGGGACTGGGAAAATGGCCACATTTGCCATATCGATTCTGCAGCAGATTGA
ATTAGATCTAAAAGCCACCCAGGCCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGT
CATGGCACTAGTAGACTACATGGGTGCCTCCTGTGCATGCCTGTGTTCAGGGGCACCAATATGCGTGCTGAGGTGCA
GAAACTGCAGATGGAAGCTCCCCACATCATCGTGGGTACCCCTAGCCGTGTGTTTGATATGCTTAACCAGAGATA
CCTGTCTCCCAAATACATCAAGATGTTTGTACTGGATAAAGCTGATGAAATGTTAAGCCGTGGATTCAAGGACCA
GATCTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTCAGCTACAATGCCTTCTGATAT
GCTTGAGGTGATCAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGG
CATCCGCCAATTCTACATCAACGTGGAACAAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCTT
GACCATCACCCAGGAAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACTGAGAAGATGCATGCTCG
AGATTTCACTGTCTCCGCCATGCATGGAGATATGGACAAAAGGAGCAAGACGTGATCATGAGGGAGTTTCATTC
TGGCTCTAGCAGAGTTTTGATTACAACGTGACCTGCTGGCCAGAGGCATTGATGTGCAGCAGGTTTCTTTAGTCAT
CAACTATGACCTTCCACCAACAGGGAAAACCTATATCCACAGAATCAGTCGAGGTGGACGGTTTGGCCGTAAAGG
TGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCAAGACATTGAGATCTTCTACAACACCTCCAT
TGAGGAAATGCCCCCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCGCCAGCCCCAGCCAGGGCTCAATC
TCGGGGGTGCTGAGGAGCAGCAGGAGAGGGGAGTGAAGGGAGCCAAGGGATAGACTTGTCATTTTTTTTCTTTGA
ATAAATGTCACTTTTTTGGAGCCAAAA

6877/6881
FIGURE 6352

ACTTCTGTTCCAAAGGCTGGGAAGAACTAAGCTGCCCCAGCTCCTCCCATTCTTGGGCAGGGCTCTTTCCTGTT
GTGTGTTCCCTCCAGGGCCTGTCTGTACCGAGCTCTGTCTGTTCCAGCCTTCATCCTTCCTGGCTGTTGCTTTTC
CTCTTAAGGGCCTTAGAACTCTTGCTCTTCTGGGCTGTGGGGGAATGAGTGTCTTGCCATTGCGCAGCCTAAT
GCGCATGGTTTTCTGCCCCGTGATAACAGGAGTGAGTGAGCCCCCTCAGACCTGCACTCTGGGTGTCTCCTGCTTTCA
AAGGTTCTTAATAGTGAATGCTTTAAAATTAAAGTCATCACAAAATGGAAGTTTTCCAGGGTGGAAAACAAGAG
GAAGTGCTGCTGTAATTGGGAGCACAAAGGGGCCTCCCCAAAAGGAGCCCCACCTCAGCATCACTGCCTTATTTGT
GGCCTCCGTGGGGTGAGTGGGGTTCTCTCCTCCCTCCCTCCCTCCTCCTGGGGTGGGAGGGCGCTCCTATTCCCA
TCTTTGTGTTCCCTGGAGGCAGGTATCACAAAACATTTGTGAATTGCTTTAGGTGCAGGGACACCACCCACTCAG
GACTTTTCCCCATCATCCCTTCCATTGCCACACCCTAGATCCAGCCTCAGGAACATAAAGTTTTGAGAAAAGCA
GGCGGTAGAGCAGCAGCTTGGTGCTCTCAGCGGTGGCTGGCTGGCATTCTTCTCTAGCATTGTGGTGCCACCTTC
CCTCCTTGTCCTCAAGGTTATAAGGCCTTGTCTTTCTCTTTGGAATCATAAAGTGGAACAGAGTCCCCAGAAGTCG
TGTGGCCATTTCCGCCAGCATCACTCCCCGGTGCCTGTGGGGTCCCGGTGTACCTAATGGGAGAACGATCCCATG
TGCTAGCCAGAAATATACCGTCTCTTGAAGGAAAGCAGGAGCTCAGACTTTTAGAGCCAGCTGTGGCTTCGGACC
CAAGGCCTGACCTAGGCTGCTATCCTAATATTGCAGAAGGGGCCTCTCTTCCAAGCCCCACCCTAAGGGTTAGCC
CTTGGCCAAATCTTTTGCCATCTGGTCCCAGCTAGGCTTTTCTGACTAAATAAGCAATAAGAGGGTCTAAGCTGA
CTGAGTTGCAAGGACCCTTTCCACCCTCCCTTGGATCTCCATGTTTTTCCAGATGGAGGAAGAGCATGTGCCACC
CCCTGTCCTAACAGGCTTGTCCAAGTGCTTGGTGTGGGACCCAAGACCAAAGCCCAGGATGGCTTGGTGGGAGTG
TCCCTGCTGCATCTGCATGAAGCCCCTGCTTTCTAGGCCTCACTCCCATCAGAACCCTGCCTGCCACCTGCAAC
TCCCCACAGCAATGCCATTCCCCTTCCCCAGAGAAGCTACTCAGCCAAACCTAGCCAGGGTCTGTTTCATGTA
GACCAGAGCCAGCCTAGTCATTATTTGCTGTGGGGTTTCCAGTTTCACTGTGTGTTAGGGCGAGGGATGATTGTA
AAATTTGCTCCTCAAAGGAATCAGGCCAGACTCAATTTTGGAGGGCAAGACAGGGAGGAGGCCGCTTCATCCCAG
ACTCTCTTCTAGGGCTTCCCACCATCAGCCCCCTCCCCTTGAGACTGGTCTTCAGGAGGCAATAGGCCACCATGC
CTGGTCAGCATCAATTCAAGCCATGCCAGGAATCTGCCTACCTGCCAGGTTTCAGTTCCTTTAAGGTGCCTCTTAA
GGGACACACTGTGTCTCTCTGATTGGGCTTCTAAATCAAAAAGCCTGATGTTTCGTGTCCCTCTCATAGGGGGAGCT
TTGGATACAGGACCAGTTTGGAAAAGGGTCAGGTAAGGGTTTCCACTCTGCACATTGTAGAGGGGACGCTCGGTA
GCCCATGGGTCCCTTACTAAAGAGGTTGAGTGAATTTGCCTTCAGTTAACCTGGGACCTTCTGTTTAGCTTCCTT
CTGCTTCCCAAAGATTTTAAGCATTTTGTAAATGTATAAACTCACCTCTGGCAACAGTGGCCAGATGCTGCTTT
GTGCTATGTAAAGGCAGTCTTTCCCTGGGAAATGGATGCTATTCTATTCTGCTGCCCCCTACCTGTTCTGAGGCT
TCATTTAGAAAGAAAATACCTCAGAAGGCTGTCTGGCACCCAGTGTCTTAGCCAGGCCAAATATATGAGAAAGG
TAAGTCCATTTTCCCTTCAGGTCTCAGTGGATGACTTAACCCTGCTGTCCCTTGGTCCCTTTTTCCTAAACA
GGGGTTTAGTTCTGTCTTTTATCCTTTTTTCTAAATGCTGGTAAATATCTACATTAGCCAGGAAGAGGAGGCC
AGAGGTGGGGCAGCTGCCCCATTCTTTTAACGTTGTAGGGCCTGCCCTGGAGTGGACCTTCCTCTTTGGGCCT
CGTCAGCTTTTTTGTCTTATCATATTCCATTTTGTGCCACTTCCCCCTTCAAGATGCCATTTGGAGGGTAGGGGA
TCTGCTTTCCACTGTGAGTGGGCTATGAGATTCTGACTACCTTGCTTACAGATTGATGGTTTGATAAATTTGTTG
CATTCAAAAACCTTGTAATGCAGGACGCCATTAAGTGTCTGTTTAAATTTTGGATTATTTATATTACTTACAATT
AATTAATAAAAGTGGGTTTAAAAAACCT

6878/6881
FIGURE 6353

AACCTACTACGTGCGGCGGCAGCTGGGGCGGGAAGGCGGGAGCTGGGGGCGCTGGGGGCGCTGCGGCCGCTGCGG
CCGCTGCAGCCGCTGCAGCGCCAGGGTCCACCTGGTCGGCTGCACCTGTGGAGGAGGAGGTGGATTTTCAGGCCTC
CCGTAGACTGGAAGAATCGGCTCAAAACCGCTTGCCTCGCAGGGGCTGAGCTGGAGGCAGCGAGGCCGCCCCGACG
CAGGCTTCCGGCGAGACATGGCAGGGCAAGGATGGCAGCCCCGGCGGCAGGGCCTGGCGAGGAGCGCGAGCCCCGCG
GCCGCAGTTCCCAGGCGTCTGCGGGCGCGAGCACGCCGCGACCCCTGCGTGCGCCGGGGCGGGGGGGCGGGGCCTC
GCCTGCACAAATGGGGACGAGGGGGGCGGGGCGGCCACAATTCGCGCCAAACTTGACCGCGCGTTCTGCTGTAA
CGAGCGGGCTCGGAGGTCTCCCGCTGCTGTTCATGGTTGGTTTCGCTAAACTGCATCGTCGCTGTGTCCAGAACA
TGGGCATCGGCAAGAACGGGGACCTGCCCTGGCCACCGCTCAGGAATGAATTCAGATATTTCCAGAGAATGACCA
CAACCTCTTCAGTAGAAGGTAAACAGAATCTGGTGATTATGGGTAAGAAGACCTGGTTCTCCATTCCTGAGAAGA
ATCGACCTTTAAAGGGTAGAATTAATTTAGTTCTCAGCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTTTC
TTCCAGAAGTCTAGATGATGCCTTTGGTGCGAGTTCTGTTTATAAGGAAGCCATGAATCACCCAGGCCATCTTA
AACTATTTGTGACAAGGATCATGCAAGACTTTGAAAGTGACACGTTTTTTCCAGAAATTGATTTGGAGAAATATA
AACTTCTGCCAGA

6879/6881
FIGURE 6354

TAGAGCAGACAAGCCCGCCCCGCGCTCCTCCCAGCAGCTTCTATCCCGGAAGTTGATGCCGAGCGCAGATCGCT
TGCAGCTTGCTAGCTGTGTGGGCTGGGAGGTCTGGTAGGGCTGAGCTTGCAAGAGGATCAACATGCCTTTGGCTA
GAGATTTACTACATCCGTCCTTGGAAGAGGAAAAGAAAAACATAAAAAGAAACGCCTAGTACAAAGTCCAAATT
CTTACTTTATGGATGTAAAATGTCCAGGTTGCTACAAGATCACCACGGTTTTTCAGCCATGCTCAGACAGTGGTTC
TTTGTGTAGGTTGTTCAACAGTGTTGTGCCAGCCTACAGGAGGAAAAGGCCAGACTCACAGAAGGTATATCATTTG
GCATTCTCCAACCCAGTGATGAGATTGATGATTATAAATGTCTCTATCTTCACTGAAAAGTTTAAAGAAATCTTA
ATGATTACCAAATAACTTATCTTTTCATTGTGTGCTTTCAGTAAAGAATGGCCTGTTCAAATGGATATATTTATA
CTCTTGACCTTGCAGTGAACCTCCATTGACTTATTTTTCTTAGTTTAGAACACATTTATTCACTTAGTTTGCTTAA
CTTGGAATAAATTAAGTCAGAATAGAAGCAAAAGAATAACTACATGTTATAGGACATGCAGATTTATTTATTTAT
TTATTTATTATTTTTTTTTTTTTTTTATTAGGAGTCTCGCTCTGTCAACCAGGCTGGAGTGCAGTGGCGCCATCTCAGC
TCACTGCAACTTCTGCCTCCCCGGTTCAAGTGATTCTCTTGCCCTCTGCCTCCCAAGTAGCTGGGACCACAGGCGC
GTGCCACCATGCCTGGCTAATTTTTTGTATTTTATAGTAGAGGTGGGGTTTCACTGTGTTAGCCAGGATGGTCTTG
ATCTCCTGACCTCATGGTCTGCCACCTCAGCCTCCCAAAGTGCTGGGATTATAGGCATGA

6880/6881
FIGURE 6355A

CACAACCGTGACAGACTGCCATTCTCTGAGTCTCTTCTGGCCATGGGCCCCGGAGCCGTGAGCGTCGGGCAGGCG
CGGTACAGAACACCAACGACAGCAGCGCCCTCAGCAAGCGTTCCTTGGCCGCGCGCGGGTACGTGCAGGACCCCT
TTGCCGCGTTGCTGGTTCGGGGCGCGCGCGCCGCGCACCCTCATTACCGAGGCTACTACGTCCGCGCACGCG
CCGTGAGGCACTGCGTGCGCGCTTTTTTGGAGCAGATTGGCGCGCCCCAGGCCGCGCTTCGCGCGCAGATCTTGT
CTCTCGGCGCTGGCTTCGACTCGCTCTATTTTCGCTTAAAAACCGCGGGCCGCTGGCCCCGGGTGCAGTCTGGG
AGGTGGATTTTCCGGACGTGGCGCGGGCGCAAAGCAGAAAGGATTGGAGAGACGCCAGAGCTGTGCGCGTTAACCG
GGCCTTTTCGAGAGGGGGGAGCCCCGCTCCGCGCTGTGCTTTGAGAGCGCAGACTACTGCATCCTGGGTCTGGACT
TGCGGCAGCTCCAGCGAGTGGAGGAGGCCCTGGGCGCCGCGGGGCTCGACGCAGCCTCACCCTCTGCTCCTGG
CCGAGGCGGTGCTGACCTACCTCGAGCCGGAGAGTGGCGGGCCCTCATCGCTGGGCAGCCAGCGTTTTCTTA
ATGCCCTTTTCGTGGTCTATGAGCAGATGAGGCCTCAAGACGCCCTTTGGCCAGTTCATGCTGCAACATTTTCGGC
AGCTAAACTCCCCCTGCATGGCCTGGAGCGTTTTCTGACGTGGAGGCGCAGCGGCGCGCTTCTTCAAGCTG
GCTGGACCGCTGCGGTGCCGTGGACATGAATGAATTCTATCACTGCTTTCTTCCGCGAGAAGAAGCGGGCGGG
TGGAAATATTGAACCTTTGACGAATTTGAGGAGTGGCATCTGAAGTGCGCCATTATTTTATTCTGGCAGCTT
CTAGGGGAGACACCCTCTCCACACCCTAGTGTTCCTCATCTCAGAGGCATTTCTCGCGTAAATCCTGCTTCGC
CTTCAGGGGTATTCCCTGCCAGCGTAGTCAGTAGCGAGGGCCAGGTCCCAAACCTGAAGAGATATGGCCACGCCCT
CTGTCTTCTTGAGCCAGACGTTATTCTCAGTGCAGGAGGATTTGGAGAGCAGGAGGGGCGGCACTGCCGAGTGA
GCCAGTTTCACTTGCTCTCAAGAGATTGTGACTCTGAATGGAAAGGCAGCCAAATAGGCAGTTGTGGGACTGGAG
TTCAGTGGGATGGACGCCTTTATCACACCATGACAAGACTCTCAGAGAGTCGGGTTCTGGTTCTGGGAGGGAGAC
TGTCCCCAGTAAGTCCAGCCTTGGGGGTTCTCCAGCTTCATTTTTTTAAGAGTGAGGATAATAACACTGAGGACC
TGAAAGTGACAATAACAAAGGCTGGCCGAAAGGATGATTCCACTTTGTGTTGTTGGCGGCATTCAACAACAGAAG
TGTCTGTGAGAATCAGGAATATTTGTTTGTGTATGGGGGTCGAAGCGTGGTGGAACCTGTACTAAGTGAAGTGGC
ATTTCTCCATGTAGGGACAATGGCTTGGGTGAGGATCCAGTGGAGGGAGAAGTACCTGAAGCCCGGCATTCTC
ACAGTGCCTGCACTTGGCAAGGGGGAGCCCTTATTGCTGGAGGTCTCGGGGCTTCTGAGGAGCCATTGAAGTCTG
TGCTCTTTCTGAGACCAATCTCTTGTGGATTCTCTGGGAGTCAGTAGACATCCAGCCTCCCATACCCCAAGGT
ACTCCACACAGCTCATGTGCTCAATGGAAAGCTGTTACTGGTTGGAGGGATCTGGATTCACTCTCTCCTCATTTC
CTGGAGTGAAGTGTATCAATTTGACTACAGGATTGAGCTCTGAGTATCAGATTGACACAACATATGTGCCATGGC
CATTAAATGTTACACAACCATACTAGTATCCTTCTTCTTGAAGAGCAACAGCTCCTGCTCCTTGGAGGTGGTGGGA
ACTGCTTTTCTTTGGTACCTACTTCAACCCCATACAGTCACATTAGACCTTTCTTCTTAAAGTGTGGGAGT
AAGGACTGGACTAATATTAGGACCCACTAAAGTAGACAATAAAGTTTTCCACAAATAGGATGACCCCTTAGCTA
TAGATACTGCCACTCCTCCTTTCCCCATCCTTTTTTCCCTTAGCACTATTAGTGCAAAAAGTGAAAAAGGTTG
GTAAATAGGTAATAACCTAGAAACAATCACTACAGAAAACAGCTGAAGACAGTGGCCATGCAGTCCGAGAGGA
GTAGTGGTCTGCCTCTAATTTCTAATCTAAGTTCGTTTATTGAGTTACAGTGGTCTTTAGTAAAGTAAACAAT
TTCCCAATCCCAGGCCTTGTGATTGTAGATGGTACCTTAGAAAAAGTTACACGCAGTTCGGTGGTTGAATATATT
TGAGATGGTACCTTAGAAAAAGTTTCACGCAGATCCTTGGTTGAATATAGTTGAGGGAGCGTAGTATTGACAATT
CTTCATGTAGGAAACCTGAAATGAACACAGTCACAGTTTGATTAAACATTGTCTGTTTGTGCAACAGAAAAC
TCGGATAGTTTTAACAACAGGAAACACTTGTAGGACTTCCTTTACCAACATACTTTTAAATGTTTGTCTATTGG
TTCCATATTTATTTAGATTTATAAGTGTCAATAAAGCAAACCTTTTGATGCCTCAATTCATTTTGCACGGGGTATA
ATAATGTTTTGTTCAGATATACTCTCCACCTTTCAGTGTCTGTGCTCCAAGAGGCTGACCTTTATGGGCTGCA
TCAAGGAGCTCTCTTTACTTTTTGGTTGAGTTCACCAGTCAGAGGCACCAGAGGGGAATGGGGGCAAAAAGAAG
AGTGAGAGTGAGTTGGTATTTATTTCCCAATCTTCCCTGTTGGTTTGCAAGTTGGCAGTGGCAGCATTCTTCTG
TCAAAGGCTACAGCTCCTGCCGTGTAATCCTTTTCTGAAGACAGAGTTCTAATTCTGCATCATCCCAGGTTTCAG
TAATTGTTCTTTACTTTCACCTTTTCAGGCCTAGGAGTTGTGATGGCTCTTTGCTAGACCTGAAGTGTACTGTCC
AATGTGGTAGCTATTGACAACATGTGACTATTTAAACGAATTAATAAATTCAGTGGCTTAGTCACATTGACCACA
TTTTAAGTGCTTAATAACTATGTGTGGCTTTGGCTACTGTATTAGACAATGTAGATGTAGAACATTTTCATCGTTA
CAGAAATTTCTACTGGACACTGCTGACTGGATATCTTGACTTGGTTTCCCTTAACCCCTACTCAGCCCTTATAGT
TAGCATCCCATTAAACTCAATTATCCCTTTTATATGGGAATCTGTTGCCTAGTGAGCCATGTGAGATCAATGAAA
TAGCTATTATCCTTAAATTTGAGCCTTAATTTGTCTATCTAAATTATGCATACCTTGTGAAATATACACCTCAA
AAAATGTAGTGGCTTTGGTGGTAATAAGTGTATTACTTTAGTATTTCTTCTTAGTCCTAGAAACCTTAGTAGTTT

6881/6881
FIGURE 6355B

TCATTCTACAAGTGCCTAAATGATTATTATGAACCATCATTGATGACAAATTGCATCCTTTATTTCTATTAATTT
TGCATATAAATGGATGTGAAAGGTGATTAATATAAAAACCAAGTAGCAAACACAAACCTAAGTGTATGGAGAGGA
CAGTCTTGGCTCTGTTAGATGAAGCCTCCCCGGGGGAGACCAGCTGAATGAGGGTTGTGGTATAGGCTGGGCATG
GTGGCTCACGCCTATAATTCCAGCACTTTGGGAGGCCAAGACAGAAGGATCACTTAAAGCCAGGAGTTTAAGACC
AGCCCAGGCAACAAAGTCAGATCCCCATCTCTACAAAAAATAAGTAGGCACGGTGGTGTGTGCTTGTAGTCTTG
GATACTCTGGAGGCTGAGGTGATAGTGAGCTGTGATTGTGCCACTGCACTCCTGCCTGGTTGACAGAGTGAGACC
CCGTCTCTTAAAAGAAAAAAAAAAAAAGGTTGTTGTCCAACCTTCAGCTTTCCTGATACTTTGTAAGAGCCATTT
TAGGGAAAGCATTGGTTATGGCTATGACTGAGTCCTGGGAAACAGGGCTTATTACAGCTGGGAAGACATCTGGCA
AGGCGATCAGTGGGCCAGGTAGTAGAAACTGGCAGGGAATATGATCAGCAGGAGAAAATGGCTGTTCTGTATTT
CCTGTTTCTAAGTTTACTACAGCACACCCAGCTTTCAGGAGCAGATAAAAGCAGAACTGTGATGAGGCCAGG
CGCAGTGGCACATGCCTTGATCCAGCACTTTGGGAGGCCAAGGCTGGCAGATCACTTGAACCTCAGGAGTTGGAG
ACCAGCCTGGCCAATATGGTGAACTCCGTCTCTCCCCAAAAAAAAAAAAAAAAAAAA